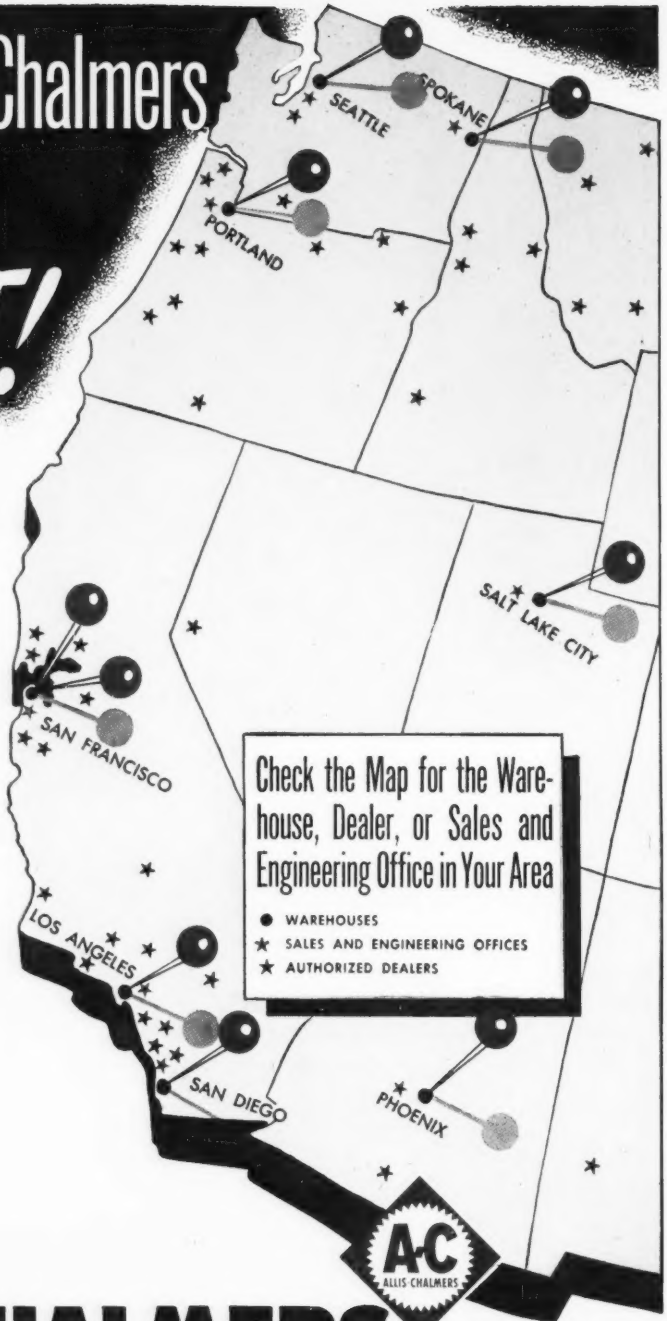
# ELECTRICAL WEST Part II

April 1949
50 cents

## Manufacturers' Directory Issue

SPOKESMAN FOR THE MOST HIGHLY ELECTRIFIED REGION OF THE U. S.

# Here's Allis-Chalmers in the *WEST!*




THIS MAP shows the chain of nine Allis-Chalmers sales and engineering offices in the far west . . . supplemented by over 60 dealers, who handle one or more "A-C" small apparatus lines.

In addition, Allis-Chalmers warehouses in: Seattle, Spokane, San Diego, Portland, San Francisco, Los Angeles, Phoenix, and Salt Lake City are ready to assist you from stocks of small apparatus and repair parts for large and small equipment.

Allis-Chalmers is serving the West with industry's broadest line of equipment for the electrical power industry. A-C's facilities for service are growing. It is our aim to keep them growing, and to serve you better. A-2682

**Pacific Regional Office,** 650 Harrison Street, San Francisco 7, Calif., Tel: Douglas 2-8384.

**Los Angeles Sales Office,** 458 S. Spring St., Tel: Madison 6-2231.

**San Diego Sales Office,** 735 Bank of America Bldg., Tel: Franklin 9-8398.

**Portland Sales Office,** 920 S. W. 6th Avenue, Tel: Broadway 5515.

**San Francisco Sales Office,** 650 Harrison St., Tel: Douglas 2-8413, Douglas 2-1562, Douglas 2-8384.

**Seattle Sales Office,** 1318 4th Avenue, Tel: Main 3797.

**Spokane Sales Office,** West 428 Riverside, Tel: Main 4677.

**Phoenix Sales Office,** 45 W. Jefferson St., Tel: 3-5446.

**Salt Lake City Sales Office,** 134 S. Main St., Tel: 3-1723.

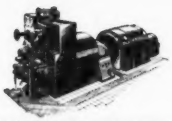
ALLIS-CHALMERS, 939A SO. 70 ST.
MILWAUKEE, WIS.

# ALLIS-CHALMERS

**Pioneers in Power and Electrical Equipment from Generation through Utilization**

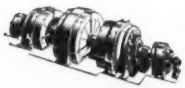
# Allis-Chalmers

## PRODUCTS FOR POWER, ELECTRICAL AND INDUSTRIAL APPLICATIONS



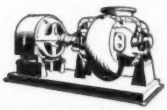
### POWER GENERATION

*Steam Turbine Generator Units* are built to all practical sizes in condensing, non-condensing and automatic extraction types. *Hydraulic Turbines* in Francis, propeller and impulse types. *Gas Turbines* to 10,000 hp. Other power plant equipment: *Surface Condensers*, air ejectors, deaerating heaters, *Water Conditioning* equipment, chemicals, and service. Bulletin 25B6150A.



### GENERATORS

Allis-Chalmers builds a-c and d-c generators of all commercial characteristics and practical capacities . . . turbo, water wheel, engine, coupled, and belted types. Bulletins 05B6139, 05B6031.



### CENTRIFUGAL PUMPS

*Single Suction* — capacities to 2800 gpm, heads to 575 ft. *Double Suction* — capacities to 170,000 gpm, heads to 2000 ft. *Condensate Pumps* in sizes to 2000 gpm, *Condenser Circulating Pumps* to 100,000 gpm, *Ash Removal Pumps* to 7000 gpm, Close Coupled Auxiliary Pumps and a wide line of special pumps. Bulletin 52B6059E.

### BLOWERS

Light weight, single stage, overhung centrifugal blowers for gauge pressures 1 to 3.75 lbs, pedestal units for pressures to 6½ lbs in volumes from 1000 to over 40,000 cfm. Compact units for cupola blowing, diesel scavenging and supercharging, gas boosting and exhausting. Bulletin 16B6048. Multi-stage units from 3000 to 130,000 cfm in pressures 10 to 40 lbs G.

### COMPRESSORS VACUUM PUMPS

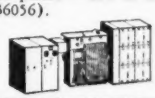
Rotary type machines for use in every industry. Pressures from 5 to 40 lbs gauge, vacuums to 28½" Hg.

### TRANSFORMERS

For any power distribution problem, there is an Allis-Chalmers transformer *Power* — 500 kva to largest, dry type or liquid filled (71B6084); *Distribution* — to 500 kva, pole, vault, subway, substation and dry types (71B6159) (71B6382); *Load Center* — 100 to 2000 kva, indoor or outdoor, dry or liquid filled; *Network* — 150 to 1000 kva, vault or subway types; *Furnace* — indoor or outdoor, water or self-cooled, all ratings; *Instrument*—potential, current, and signal, indoor or outdoor, outdoor metering, standard voltages. Bulletin 71B7168.

### FEEDER VOLTAGE REGULATORS

⅝% Step Regulators improve regulation on all power lines . . . require only ⅓ the exciting current of induction type. Single phase—2.4 to 15 kv (01B6065); Three phase — 2.4 to 69 kv. (01B6056).



### UNIT SUBSTATIONS

Factory built, metal enclosed, Multi-circuit (11B6935), Single circuit, and Load Center unit substations (11B6285) built for indoor or outdoor operation. Protective inert gas system, "quick-break" contact separation, finger-type disconnects, no-corona taped bus joints — are features.

### SWITCHGEAR

All types of switchgear: indoor and outdoor, with circuit breakers to suit application. Three types of cubicals, three types of breakers, many types of switchboards — custom built to suit needs. From 15,000 kva to 3,500,000 kva I.C.

### CIRCUIT BREAKERS

Four types of outdoor oil circuit breakers in the following types: BZO-160 — 69 to 230 kv, 5 cycle opening, 20 cycle reclosing; FZO-151 — 69 kv, 5 or 8 cycle opening, 20 cycle reclosing; FZO-150 — 14.4 to 46 kv, 8 cycle opening, 20 cycle reclosing; Type O — 14.4 to 23 kv, 8 cycle opening, 35 cycle reclosing.

### MOTOR GENERATORS

Standard sets are available in ratings 1 kw and larger for commercial voltages and frequencies. Also built for special purposes as with flywheels for hoist service, to support mill motors, as frequency changers, balancers, boosters, and equalizing sets. Bulletin 05B6032.

### RECTIFIERS

Power rectifiers convert a-c to d-c without moving parts, noise, or vibration; are especially suitable for automatic operation — can be started instantly on load demand. "Sealed tube" Excitron can be installed in metal enclosure as part of unit substation. Bulletin 12B6699.

### MOTORS

Available in most-used types: squirrel cage (51B6052), wound rotor, synchronous, direct current . . . with electrical and mechanical modifications to fit the job. Investigate *New Tube Type* totally enclosed fan cooled and explosion proof motors from 75 hp through several thousand hp — for powerhouse auxiliaries, dust laden atmospheres, etc. (51B7149) (05B7150)

### MOTOR CONTROL

A line of standard a-c motor starters for every requirement of motor operation: full voltage (14B7132) and reduced voltage, manual and magnetic, reversing and non-reversing, in all popular types of enclosures for squirrel cage, wound rotor and synchronous motors (14B6410). Line includes combination starters, multi-speed starters and accessories such as: push buttons, control switches, indicating lights, etc., plus a wide line of special controls (25B7095).

### V-BELT DRIVES

Texrope V-belts and sheaves in sizes and types to suit every application from fractional hp to 6000 hp; . . . variable speed from fractional to 300 hp in either stationary or motion control types. Speed Changer Unit for 1 to 75 hp gives 3¾ to 1 speedchange. Bulletin 20B6051H.

**For further information, write for a specific bulletin, for Products Directory 25B6057, or see your nearest A-C Sales Office.**

ALLIS-CHALMERS, 939A SO. 70 ST.
MILWAUKEE, WIS.

A-2684

# ALLIS-CHALMERS

**Pioneers in Power and Electrical Equipment From Generation Through Utilization**

# DIRECTORY of MANUFACTURERS

Alphabetical listing of manufacturers of electrical equipment, showing their principal Western offices and sales representatives. ● Every manufacturer operating in this territory is privileged to be included without charge. While this Directory is as accurate and complete as the publishers could make it, ELECTRICAL WEST assumes no responsibility for errors or omissions. **PAGES 2 TO 49.**

**WHERE-TO-BUY IN THE WEST**—Alphabetical listing of various electrical products, showing Western sources. **PAGES 50 TO 67.**

**DIRECTORY OF APPLIANCE SERVICE AND REPAIR PARTS**—A listing of electrical appliance manufacturers' Western service stations and parts depots. **PAGES 68 TO 81.**

**DIRECTORY OF REPRESENTATIVES**—A listing by states and cities of manufacturers' representatives handling electrical lines. **PAGES 82 TO 88.**

**A-A ELECTRIC MFG. CO., THE Bridgeport, Conn.—Alexander W. Bromberg, Los Angeles.**

**A. B. STOVE CO., Battle Creek,** Mich.—**R. L. Baldwin, Los Angeles**; Lynn & Chemnitz, San Francisco.

**A. & P. ELECTRICAL DEVICES** CORP., Los Angeles, Calif.—Thru wholesalers.

**ABCO** MFG. CO. INC., Seattle, Wash.—Garrett Lowman, Seattle; Glaspell Eng. & Sales, Pasadena; Allied Distributors, Denver, Colo.

**ACCURATE MFG. CO., Garfield, N. J.—F. J. Airey Co., Los An**geles; P. and G. Agents, San Francisco, Calif.; Electric Agencies, Inc., Seattle.

**ACCURATE SPRING MFG. CO.,** Chicago, Ill.—**E. Jordan Brookes** Co., Seattle, Beverly Hills, San Francisco.

**ACME** ELECTRIC CORP., Cuba, N. Y.—Moore-Montroy Electric Co., Los Angeles; M. Platt, Portland, H. George Shefler, Phoenix; K. B. Shumann, Denver.

**ACME ELECTRIC HEATING CO.,** Boston, Mass.—Andrews Hardware & Metal, Los Angeles.

**ACME LITE PRODUCTS CO.,** New York City—John Maddox, San Francisco; Rennick Sales, San Francisco; E. Russell White, Portland.

**ACME STEEL CO., Chicago, Ill.—S. J. Johnson, Pac. Coast Sales Mgr., Los Angeles. Branches in** San Francisco, Portland, Seattle and Vancouver, B.C.

**ACORN INS. WIRE CO., INC., Brooklyn, N. Y.—Keeler White Co., Seattle, Portland, San Francisco, Los Angeles.**

ACRO ELECTRIC CO., Cleveland, Ohio—George S. Tivy, Los Angeles, Calif.

**ADALET MFG. CO., THE, Cleveland, Ohio—Angus-Campbell, Inc.,** San Francisco, Los Angeles, Seattle.

**ADAM ELECTRIC CO., FRANK, St. Louis, Mo.—A. F. Cook, Spokane; Columbia Elec. Mfg. Co.,** San Francisco; Fred E. Staible, Inc., Denver.

**ADAPTI CO., Cleveland, Ohio—J. M. Chapman Co., San Francisco, Calif.**

**ADMIRAL CORP., Chicago, Ill.—** Herbert H. Horn, Inc., Los Angeles; Kaemper-Barrett Co., San Francisco; McKay Appliance Co., Spokane and Seattle; Lou Johnson Co., Portland; Walter B. Lloyd Co., Salt Lake City; D. N. Latus & Co., Helena, Mont; Marcus Brothers, Denver; E. H. Krohm & Co., El Paso, Tex.

**ADMIRAL LAMP MFG. CORP., Chicago, Ill.—Ben Hartmann, No. Hollywood.**

**AERO-MOTIVE MFG. CO., Kala**mazoo, Mich.—R. R. Petrie, Los Angeles; Denham Sales, San Francisco; Benton Forrest, Denver; O. J. Thomas, Portland.

**AEROVENT FAN COMPANY,** Piqua, Ohio—Sharpe Engineering Co., Los Angeles; H. K. Mead, Portland; George E. Mead Co., Seattle.

**AEROVOX CORPORATION, New** Bedford, Mass.—A. J. Hitt, San Francisco; W. C. Hitt, Los Angeles; James J. Backer, Seattle; W. H. Connors, Denver; G. G. Willison, Houston, Tex.

AINSWORTH LIGHTING, INC., Long Island City, N. Y.—E. I. Jones Co., Dallas, Tex.

**AIR CONDITIONERS SALES CORP., Div. of Noma Electric Corp., New York City—Authorized Noma distributors.**

**AIR CONTROLS, INC., Cleveland, Ohio—O. C. Hatch, Seattle; Howard A. Weller, Portland;** F. T. Clifford, Salt Lake City.

AIR COOLING ENGINEERING CO., Morton Grove, Ill.

AIRCRAFT-MARINE PRODUCTS, INC., Harrisburg, Pa. — E. F. Hauck, San Francisco; Ralph James, Seattle; D. L. Porter, Los Angeles; F. Dale Brooks, Ogden, Utah; Alberic DeLaet, Palo Alto, Calif.

AIRESEARCH MFG. CO., Inglewood, Calif.—Airsupply Co., Los Angeles; C. & H. Supply Co., Seattle.

F. J. AIREY COMPANY, Los Angeles, Calif.

AIRMASTER CORPORATION, Chicago Ill. — O'Keeffe's, Inc., San Francisco.

AIR-WAY ELECTRIC APPL. CORP., Toledo, Ohio—Branch offices: San Francisco, San Diego, Santa Barbara, Los Angeles, Bakersfield, Riverside and Fresno, Calif; Phoenix, Ariz.; Boise, Ida.; Portland, Ore.; Seattle, Spokane, Wash.; Salt Lake City, Utah.

**AJAX ELECTRIC CO., INC., Philadelphia, Pa.—F. B. Lee, Seattle, Wash.; J. Max Lee, Los Angeles.**

**AJAX ELECTROTHERMIC CORP., Trenton, N. J.—E. A. Wilcox Co., San Francisco and Pacific Northwest; J. Max Lee Co., Los Angeles District.**

ALABAMA MFG. CO., Birmingham, Ala.—Lynn & Chemnitz, San Francisco, Los Angeles, Seattle, and Denver.

ALBERSON & CO., INC., Sioux City, Iowa—Thru leading distributors.

ALBERTSON ELECTRIC CO., Milwaukee, Wisc. REA Utility Supply, Denver; and Rocky Mountain Eng. Co., Denver.

ALCO VALVE CO., St. Louis, Mo. —Pacific Scientific Co., San Francisco, Los Angeles and Seattle.

ALCOR MFG. COMPANY, Chicago, Ill.—Allen & Dare, Los Angeles; S. Borkvist, San Francisco and Oakland, Calif.

**ALDEN PRODUCTS CO., Brockton, Mass.—Gerald B. Miller, Hollywood, Calif.**

**ALL BRIGHT ELECTRIC PROD.** CO., Chicago, Ill.—Branch office: Bruce W. Stiles, Dallas, Tex.; sold thru wholesalers.

**ALLEGHENY LUDLUM STEEL** CORP., Pittsburgh, Pa.—Branch Mgrs., J. H. Spade, Los Angeles; I. R. Leheney, San Francisco; George R. Borrmann Steel Co., Oakland; National Steel Sales Co., Seattle and Portland.

**ALLEN-BRADLEY CO., Milwaukee,** Wis.— C. D. Belt, Denver; H. D. Easterbrook, Los Angeles; C. E. Klaus, Portland; Nicherson Machinery Co., Salt Lake City; Campbell & George Co., San Francisco; Muth-Richards Co., Seattle; L. E. Belfort, San Diego.

**ALLEN CO., INC., L. B., Chicago,** Ill.—A & S Equipment Co., Seattle; H. B. Squires Co., San Francisco; Geo. P. Wilcox, Los Angeles; James H. Blinn Co., Denver; E. C. Coffin Co., Salt Lake City. **(See Adv. page 50.)**

ALLEN CORP., Detroit, Mich.—W. P. Alexander, San Francisco.

ALLEN MFG. CO., Hartford, Conn. Dave T. Lane, Van Nuys, Calif.; W. J. McRae, San Francisco.

ALLEN & OLSEN MFG. CO., Venice, Calif. Meier & Murphy, San Francisco; E. J. Baughman & Co., Los Angeles.

**ALLIANCE MFG. CO., Alliance, Ohio—Geo. D. Norris, Seattle;** Marshank Sales Co., Los Angeles; E. L. Berman Co., San Francisco; H. George Shefler Co., Phoenix.

ALLIED CONTROL CO., New York City.—James J. Backer, Seattle; Allen L. Williams Co., Denver; G. G. Willison, Houston, Tex.; Douglas H. Loukota, Glendale, Calif.

**ALLIED ELEC. PRODUCTS, INC.** Irvington, N. J.—Sheldon Elec. Co., Inc., Los Angeles; W. Clif McLoud, Denver; H. G. Shefler, Phoenix; G. D. Norris Co., Seattle.

**ALLIED ELECTRICAL MFG. CO., Chicago, Ill.—F. M. Nicholas Co., San Francisco; Kenneth A. Anderson Co., Los Angeles, Calif.;** Keeler, White Co., Seattle; A. J. Elggren & Sons Co., Salt Lake City; L. R. Ward Co., Dallas, Tex.

ALLIS-CHALMERS MFG. CO., Milwaukee, Wisc. A. J. Schmitz, Mgr. Pac. Region; R. D. Moody, manager, San Francisco; W. J. Myers, Resident representative, San Diego; U. E. Sandelin, manager, Seattle; W. D. Nesbeitt, manager, Spokane; J. H. Burrus, manager, Portland; Chester Scheers, manager, Los Angeles; P. R. Pollock, manager, Denver; B. A. Seare, manager, Salt Lake City; O. F. Metz, manager, El Paso; J. L. Pratt, Mgr. Southwest Region, Dallas; D. R. Boise, Mgr., Amarillo; H. L. Reynolds, Mgr., Dallas; K. J. Ratliff, Resident Representative, Ft. Worth; A. Phillips, Mgr., Houston; T. G. Smith, Mgr., Beaumont; E. R. Hury, Mgr., San Antonio; W. C. Kinnon, Mgr., Phoenix. **(See Adv., page 1 and inside front cover.)**

ALLOVER MFG. COMPANY, Racine, Wisc.—E. R. Palmtag Co., San Francisco and Los Angeles; Lou C. Falkenhagen Co., Seattle and Portland; Wilbur E. Merrill, Salt Lake City; Lawrence H. Nelson, Phoenix.

ALL STEEL EQUIPMENT INC., Aurora, Ill. W. M. Sanderlin, Seattle; Jas. J. Noble, San Francisco; Frank H. Bran Co., Los Angeles; Kenneth B. Shumann, Denver; Jim Randall Co., Dallas, Texas. **(See Adv., page 3.)**

ALPHA WIRE CORP., New York City, N. Y. Perlmuth-Colman & Associates, Los Angeles and San Francisco, Calif., and Denver, Colo.; George D. Norris Co., Seattle.

**ALPHADUCT PRODUCTS CO.,** Milltown, N. J.—**Allied Industries, San Francisco and Los Angeles; Rutkin Elec'l Sales, Los Angeles.**

**ALTORFER BROS. CO., Peoria, Ill. —Div. Mgr., E. P. Becker, Los Angeles; A. A. Kuhnhausen, Dist. Mgr., San Francisco. Distributors: San Diego Standard Elec. Corp., San Diego; Modern Household** Sales Inc., Los Angeles; Kaemper & Barrett Dealers Supply Co., San Francisco; Eoff Electric Co., Portland; Northwest Appliance Distributors, Inc., Seattle and Spokane; Mountain States Distributors, Salt Lake City.

ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa.—Sales Offices: Seattle, San Francisco, Los Angeles.

ALUMINUM GOODS MFG. CO., Monitowoc, Wisc.—Max C. Hermann, San Francisco, Calif.

ALUMINUM INDUSTRIES, INC., Cincinnati, Ohio—Branch offices, Lyle B. Paris, San Francisco; R. T. Peckman, Denver, Colo.

ALVORD-POLK TOOL CO., Millersburg, Pa. Hubbard and Stau, Los Angeles & San Francisco.

AMANA-SOCIETY REFRIGERATION DIV., Amana, Iowa—John J. Pollon, Los Angeles, Calif.

AMERICAN AIR FILTER CO., Louisville, Ky. Harry H. Herman, Denver; English & Lauer, Inc., Los Angeles; Fred W. Kelb, San Francisco; Boyd Engineering Co., Phoenix; R. E. Chase & Co., Portland, Seattle and Spokane.

AMERICAN BLOWER CORP. Dearborn, Mich.—Branch Offices: San Francisco, Los Angeles, Denver.

AMERICAN BRASS CO., American Metal Hose Branch, Waterbury, Conn.—F. Somers Peterson Co., San Francisco and Los Angeles; Hendrie & Bolthoff Co., Denver.

AMERICAN COACH & BODY CO., Cleveland, Ohio Branch office, Oakland, Calif.

AMERICAN ELECTRIC CABLE CO., Holyoke, Mass.—James C. Pope, Jr., Los Angeles.

AMERICAN ELEC'L HEATER CO., Detroit, Mich.—R. G. Ellis, Los Angeles.

AMERICAN ELECTRIC SWITCH CORP., Minerva, O.—R. C. James, Seattle; Jas. J. Noble Co., San Francisco.

# RACO is a 3-way winner!

**The RACO Line has won the wholehearted acceptance of Contractors—**
**It's won the confidence of Architects—**
**It's won the enthusiastic support of Jobbers and Wholesalers!**

Championship of products in the building trades, however, has to be well earned. RACO's complete line of switch and outlet boxes has earned its top position on many counts—contractors depend upon the workmanship, quality, and careful inspection of RACO Boxes to insure quick installation. Architects know that RACO Boxes are dependable. The wide acceptance of the RACO Line assures wholesalers of quick turnover and steady demand. The RACO Line is approved by the Underwriters' Laboratories, Inc.

## You can always rely on RACO!

# RACO

ALL-STEEL PRODUCTS

**ALL-STEEL EQUIPMENT Inc.**—800 Kensington Ave., Aurora, Illinois

*"A BOX FOR EVERY NEED"*

**AMERICAN FLEXIBLE CONDUIT CO., New Bedford, Mass.—Thos.** D. Noble, San Francisco; Henger-Seltzer Co., Los Angeles.

AMERICAN FLEXIBLE COUPLING CO., Erie, Pa.—Harry Goss, San Francisco; Earl L. Morris Co., Los Angeles; Neal Derby, Seattle; Rex W. Williams, Salt Lake City; Albert A. Sterling, Jr., Houston; Hurley Boggess, Portland, Ore.

AMERICAN FORT PITT SPRING DIV., H. K. Porter Co. Inc., Pittsburgh, Pa. H. A. Hintz, Los Angeles; John F. Morley, San Francisco.

**AMERICAN LAVA CORP., Chattanooga, Tenn. — Electric Material Co., San Francisco, Los Angeles.**

AMERICAN METAL HOSE CO., Waterbury, Conn.—F. Somers Peterson, San Francisco and Los Angeles.

AMERICAN METAL MOULDING CO., Irvington, N. J.—Electric Agencies, San Francisco; O. W. Coombs, Los Angeles; A. S. Knight Co., Seattle; L. D. Hood Sales Agency, Lakewood, Colo.

AMERICAN METAL PRODUCTS CO., Fort Worth, Texas—A. C. Patterson, Los Angeles.

AMERICAN MICHROPHONE CO., Pasadena, California.—Don H. Burcham, Portland; H. George Shefler, Phoenix; W. H. Connor, Denver; Howard M. Saul, Los Angeles.

AMERICAN PHENOLIC CO., Chicago, Ill. — Don H. Burcham, Portland; J. P. Hermans, San Francisco.

AMERICAN SAFETY APPLIANCES CO., San Francisco, Calif.

AMERICAN STEEL & WIRE CO., Cleveland, Ohio — Columbia Steel Co., Seattle, Portland, San Francisco, Los Angeles and Salt Lake City.

AMERICAN TRANSFORMER CO., Newark, N. J. — Pacific Electro Sales, Inc., San Francisco and Los Angeles.

AMERLINE, INC., Chicago, Ill.—D. H. Lundin & Co., Seattle; Quaker Specialty Products Co., Whittier, Calif.


# ANCHOR

Meter sockets, troughs and accessories for single and polyphase services. Flush or surface mounted.

Circuit breaker load centers. Total enclosures for bottom connected meters.

Meter test blocks and cabinets, current transformer cabinets.

**Represented by**

**AGENCIES CO.** ..... **Los Angeles, Calif.**
**SQUIRES & MARSHALL** ..... **San Francisco, Calif.**
**C. E. KLAUS** ..... **Portland, Ore.**
**MUTH-RICHARDS CO.** ..... **Seattle, Wash.**

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**ANCHOR MANUFACTURING CO.**

**30 Huntington Avenue**

**Boston, Mass.**

**FACTORY—MANCHESTER, NEW HAMPSHIRE**



# GEORGE H. CURTISS

**MANUFACTURERS REPRESENTATIVE**

**TRADE-WIND MOTORFANS, INC.**
"CLIPPER" Kitchen Blowers
"AIR-WAVE" Exhaust Fans
"L-BLOW" Roof Exhausters
"QUAD" Blowers
Los Angeles Stock

**THE TORRINGTON MFG. CO.**
Fan Blades and Blower Wheels
Los Angeles Stocks

**SUPERIOR MFG. COMPANY**
Insulated Staples & Nails
San Francisco Stock

**THE TORK CLOCK COMPANY**
Electric Time Switches
San Francisco Stock

**CONDUIT PIPE PRODUCTS CO.**
Running Thread, Nipples, Elbows, Couplings, Gooseneck, Wallplates.

**APEX ELECTRIC HEATER CO.**
Bath Room Electric Heaters
Oakland Stock

540 McAllister St. MArket 1-1495 San Francisco 2, Calif.
222 - 29th St. GLencourt 1-3540 Oakland 11, Calif.


**AMPEX ELEC. & MFG. CO., San Carlos, Calif.**

**ANACONDA WIRE & CABLE CO., New York City—E. A. Casey, Western Div. Mgr., San Francisco; District Mgrs., R. L. Hayward, San Francisco; J. L. Tindale, Los Angeles; L. M. Wolfe,** Seattle; A. W. Tracy, Denver.

ANCHOR MFG. CO., Boston, Mass. — Muth-Richards Co., Seattle; Squires & Marshall, San Francisco; The Agencies Co., Los Angeles; A. J. Elggren & Son Co., Salt Lake City; Chas. E. Klaus, Portland; L.C.R. Sales Co., Austin, Texas. **(See Adv., page 4.)**

ANCHOR WEBBING CO., Pawtucket, R. I.—Western Fiberglas Supply Ltd., San Francisco and Los Angeles.

**ANDERSON BRASS WORKS, INC., Birmingham, Ala.—Waltham, De** Witt & Krusi, San Francisco; Industrial Eng'g. & Equip. Co., Los Angeles; D. H. Lundin & Co., Seattle.

ANDERSON MFG. CO., ALBERT & J. M., Boston, Mass.—Industrial Engr. & Equipment Corp., Los Angeles; North Pacific Elec. Agencies, Seattle; George E. Tarbox Co., Denver.

ANGELL MFG. CO., Dayton, Ohio — Walter W. Cribbins Co. and Morgan D. Silbersten Co., San Francisco; A. R. Dankworth, Inc., Los Angeles and E. F. Twomey Co., Los Angeles.

**ANSONIA ELEC. CO., Ansonia,** Conn.—J. T. Hill Sales Co., Los Angeles; Oscar Miller, Portland, Ore.

APEX ELEC'L. MFG. CO., Cleveland, Ohio—L. D. Stull, San Francisco.

APEX ELECTRIC HEATER CO., Oakland, Calif.—George H. Curtiss, Oakland and San Francisco. **(See Adv., page 4.)**

APPLETON ART GLASS WORKS, No. Hackensack, N. J. J. Blonder, Portland; H. N. Lindsey, Los Angeles; D. M. Galvin, Dallas.

APPLETON ELECTRIC CO., Chicago, Ill.—Branch offices and Dist. Mgrs.: A. W. Rockwell, San Francisco; E. S. Conrad, Los Angeles; R. J. Lidgate, Seattle. Branch office: Denver, Colo.

APPLETON RUBBER CO., Boston 30, Mass.—Robert R. Prussia Co., San Francisco; The McLoughlin Co., Los Angeles; George Kraft Co., Portland.

**APPLIANCE MFG. CO., Alliance,** Ohio—W. H. Connors Co., Denver; John C. Wilson, San Francisco.

ARC RAY ELECTRIC CORP., North Bergen, New Jersey—Manmars, Menlo Park, Calif.

ARCADE MFG. DIV., Rockwell Mfg. Co., Freeport, Ill.—E. B. Bradley Co., San Francisco, Los Angeles & Seattle.

ARCOS CORP., Philadelphia, Pa.—Victor Equipment Co., San Francisco, Los Angeles; J. E. Haseltine & Co., Portland, Seattle; B. E. David and Western Oxygen Co., Denver; Arizona Welding Equipment Co., Phoenix; Industrial Supply Co., Albuquerque.

ARCTIC-TEMP MFG. CO., Los Angeles, Calif.

ARK-LES SWITCH CORP., Watertown, Mass.—Montgomery Bros., San Francisco, Los Angeles, Seattle, and Portland.

**ARMATURE COIL EQUIPMENT CO., Cleveland, Ohio — Marwood Ltd., San Francisco, Los Angeles, Portland and Seattle.**

**ARMSTRONG CONTROL CO., INC., Portland, Ore. — Electric Agencies, Inc., San Francisco and Los Angeles.**

ARMSTRONG MFG. CO., Bridgeport, Conn.—E. R. Palmtag Co., San Francisco, Los Angeles, Denver and Portland.

**ARMSTRONG PRODUCTS CORP., Huntington, W. Va.—E. R. Palmtag Co., San Francisco and Los Angeles, Calif.; Cavanaugh, Portland, Ore.**

ARRO EXPANSION BOLT CO., Marion, Ohio—Tom G. Blunden, Seattle; M. E. Canfield Co., Los Angeles.

ARROW CONDUIT & FITTINGS CORP., Brooklyn, New York—J. Wallach, Los Angeles; George Kraft, Portland.

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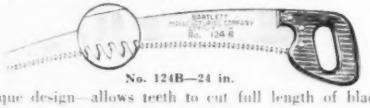

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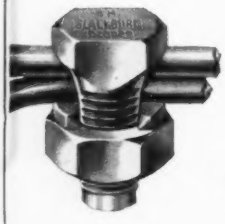

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EAGLE MFG. CO., Division of The Four-Wheel-Drive Auto Co., Appleton, Wis.—Branch offices: P. M. Schmidt, Zone Mgr., Salt Lake City; J. M. Battes, Dist. Mgr., San Francisco; A. M. Dahm, Dist. Mgr., Denver; H. W. Collard, Sales Rep., Vancouver, Wash.; W. S. Brooks, Branch Mgr., Los Angeles; E. V. Schmidt, Phoenix, Ariz. Distributed by Graybar Elec. Co.

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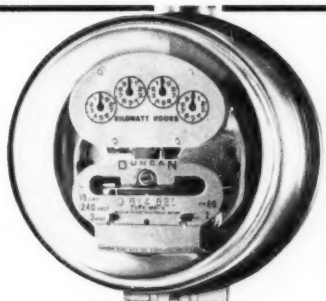


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**EDWARDS AND COMPANY, INC., Norwalk, Conn.—F. A. Strohecker, Seattle; Geo. A. Gray Co., San Francisco; J. G. Pomeroy Co., Los Angeles; A. E. Bacon Co., Denver; Mr. Wynne Snoots, Dallas; Hollis T. Pever, Houston, Tex.; Elmer Johnston, Spokane; D. A. King, Portland.**

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**ELECTRICAL COMMUNICATIONS, San Francisco.**

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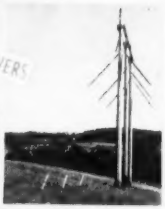

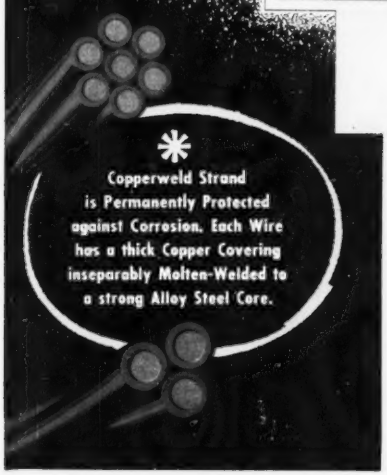


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**ERICSON MFG. CO., THE, Cleveland, Ohio—Wm. Weston & Co., San Francisco; John B. Tubergen, Los Angeles; Electric Agencies, Seattle; L. D. Hood Sales Agency, Lakewood, Colo. (See Adv., page 16.)**

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EUCLID RUBBER COMPANY, Cleveland, Ohio—Consolidated Sales Co., San Francisco, Los Angeles.

EUREKA WILLIAMS CORP., Bloomington, Ill.—R. O. Boynston, Western Regional Mgr., Los Angeles; Leo J. Meyberg Co., San Francisco and Los Angeles; Harper-Meggee, Seattle, Spokane; A. E. Carter, Salt Lake City; Gorman Eng. Co., El Paso; H & L Dist. Co., Albuquerque; Taylor Dist. Co., Billings; N. Schneider Co., Portland; Auto Equipment Co., Denver; Eureka Dist. Co. of Ariz., Phoenix.

EVERSON ELECTRIC COMPANY, Allentown, Pa.—Dom Politeo, San Francisco; A. W. Arlin, Los Angeles.

EVERSTICK ANCHOR CO., THE, Fairfield, Ia.—National distributors of Pole Line Hdwe. (See Adv., page 16.)

EXCELLO HOME APPLIANCES, Chicago, Ill.—Kennedy Dist. Co., Long Beach.

EXTRUDED PLASTICS, INC., Norwalk, Conn.—Panama Lamp & Commercial Co., San Francisco.

F. A. B. MANUFACTURING CO., Oakland, Calif.—Leading distributors, principal cities.

**FAIRBANKS, MORSE & CO., Chicago, Ill.—Branch Offices: Seattle, Portland, San Francisco, Los Angeles, Denver, Salt Lake City.**

FALCON EQUIPMENT CO., New Brighton, Pa.—Montgomery Bros., Seattle, Portland, San Francisco and Los Angeles.

FANSTEEL METALLURGICAL CORP., North Chicago, Ill.—Dist. Offices: Park B. Hyde, San Leandro, Calif.; Carl E. Holmes, Los Angeles.

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FAST & CO., JOHN E., Chicago, Ill. Waltham, DeWitt & Krusl, San Francisco.

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FEDERAL TELE. & RADIO CORP., Newark, N. J.—Hugo Romander, Redwood City, Calif.; J. K. Chaffield and Belvin Maynard, Dallas, Tex.

**FENWAL, INC., Ashland, Mass.—Montgomery Bros., Seattle, Portland, San Francisco and Los Angeles.**

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FLEUR-O-LIER MFGRS., Cleveland, Ohio

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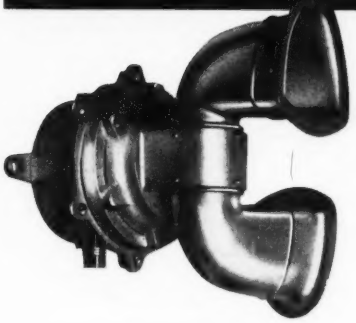
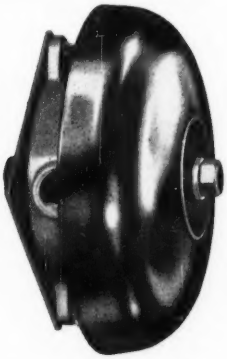
FORDHAM MFG. CO., New York City—James C. Pope, Jr., Los Angeles and San Francisco.

# FEDERAL

## SIRENS



## HORNS



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# TRANSFORMERS

## *Gardner Electric Mfg. Co.*

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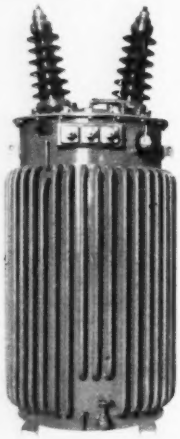

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Pole Type, Subway, Platform, Auto Type, and Custom Built
1.5 to 1500 KVA.

COMPOUND FILLED
.100 to 10 KVA.

AIR VENTILATED
.15 to 100 KVA.

Gardner Neon and Oil Burner Ignition Transformers

Representatives

WEST COAST
MAYDWELL & HARTZELL, INC.

MOUNTAIN STATES
ELECTRICAL SPECIALTY CO.

OFFICES IN ALL PRINCIPAL CITIES IN THE WEST

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FURNAS ELECTRIC CO., Batavia, Ill.—Wm. V. Brainard, San Francisco; O. E. Warburg, Los Angeles.

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**G & W ELEC. SPECIALTY CO., Chicago, Ill.—W. R. Hendrey Co., Seattle; C. E. Ingalls, San Francisco; R. E. Cunningham & Son, Los Angeles; Mountain States Machinery Co., Denver; Riter Eng'g Co., Salt Lake City; O. W. German, El Paso.(See Adv., page 19.)**

GALVIN MFG. CORP., Chicago, Ill.—J. M. Tuttle, San Francisco.

GARDNER ELEC. MFG. CO., Emeryville, Calif.—Maydwell & Hartzell, Inc., Seattle, San Francisco, Los Angeles, Portland; Electrical Specialty Co., Denver. (See Adv., page 18.)

GAROD ELECTRONICS CORP., Brooklyn, N. Y.—Pete Bach Elec., Portland, Ore.; Gilber Brothers, Inc., Portland; Radio Products Sales Co., Los Angeles; Wible Radio Supply, Tacoma; Lewis Leavy Co., San Francisco.

GAUPEL CO., ROLAND J., Los Angeles, Calif.

GEIER CO., THE P. A., Cleveland, Ohio—P. R. Conley, Seattle; J. A. Keim, Capistrano Beach, Calif.; Royal Distributors: Kaemper-Barrett, Inc., San Francisco; McKay Appliance, Seattle; Elec'l. Distributing Co., Portland; Austin Appl. Co., Denver; Biggs-Kurtz, Grand Junction; San Diego Std. Elec. Corp., San Diego; Graybar Elec., all principal cities.

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—ELECTRONICS DEPARTMENT, Syracuse, N. Y.—**W. M. Boland, District Manager, Western District; Offices at San Francisco**, Los Angeles, Seattle, Salt Lake City.

—CHEMICAL DEPARTMENT, Pittsfield, Mass. T. D. Daniels, Representative, Los Angeles; H. A. Smith and Paul Wood, San Francisco; F. B. Murray, Dallas, Tex.

—APPLIANCE & MERCHANDISE DEPARTMENT, Bridgeport, Conn. B. M. Tassie, Pacific District Mgr.; offices at San Francisco, Los Angeles, Seattle, Salt Lake City.

—CONSTRUCTION MATERIALS DIVISION, Bridgeport, Conn. D. F. Flinn, Pacific District Manager; offices at San Francisco, Los Angeles, San Diego, Portland, Salt Lake City, Seattle.

—LAMP DEPARTMENT, Cleveland, Ohio—F. M. Falge, Manager, Pacific Sales District, Oakland, Fresno, Sacramento, San Mateo. E. C. Herron, Manager, South Pacific Sales District; offices at Los Angeles, San Diego, Phoenix. L. R. Wilson, Manager, North Pacific Sales District, Portland; offices at Seattle, Spokane. G. O. Hodgson, Manager, Rocky Mountain Sales District, Denver; offices at Denver, Salt Lake City. R. A. Nungesser, Mgr., Southwestern Sales District, Dallas, Tex.

—AIR CONDITIONING DEPT., Bloomfield, N. J. E. W. Howes, **District Manager, Pacific District**, San Francisco and Los Angeles. W. H. Stover, District Manager, Northwestern District, Portland. E. I. Alter, District Mgr., Salt Lake City.

GENERAL ELECTRIC X-RAY CORP., Milwaukee, Wisc. Branch offices: A. H. Jordan, Mgr., Los Angeles; G. R. Borgman, San Diego; L. M. Rasmussen, Mgr., San Francisco; M. A. Schroeder, Phoenix; A. T. Koenniger, Mgr., Portland; W. L. Owens, Mgr., Seattle; K. S. Dawson, Mgr., Salt Lake City; E. L. Hanock, Mgr., Denver; C. D. Burgy, Mgr., Dallas.

GENERAL ELECTRONICS, INC., Paterson, N. J. Nickerson & Rudat, San Francisco; Gerald B. Miller, Los Angeles; M. F. Kliepera, Houston, Tex.

GENERAL ENGINEERING AND DESIGN CO., Detroit, Mich. Detsch & Co., San Francisco.

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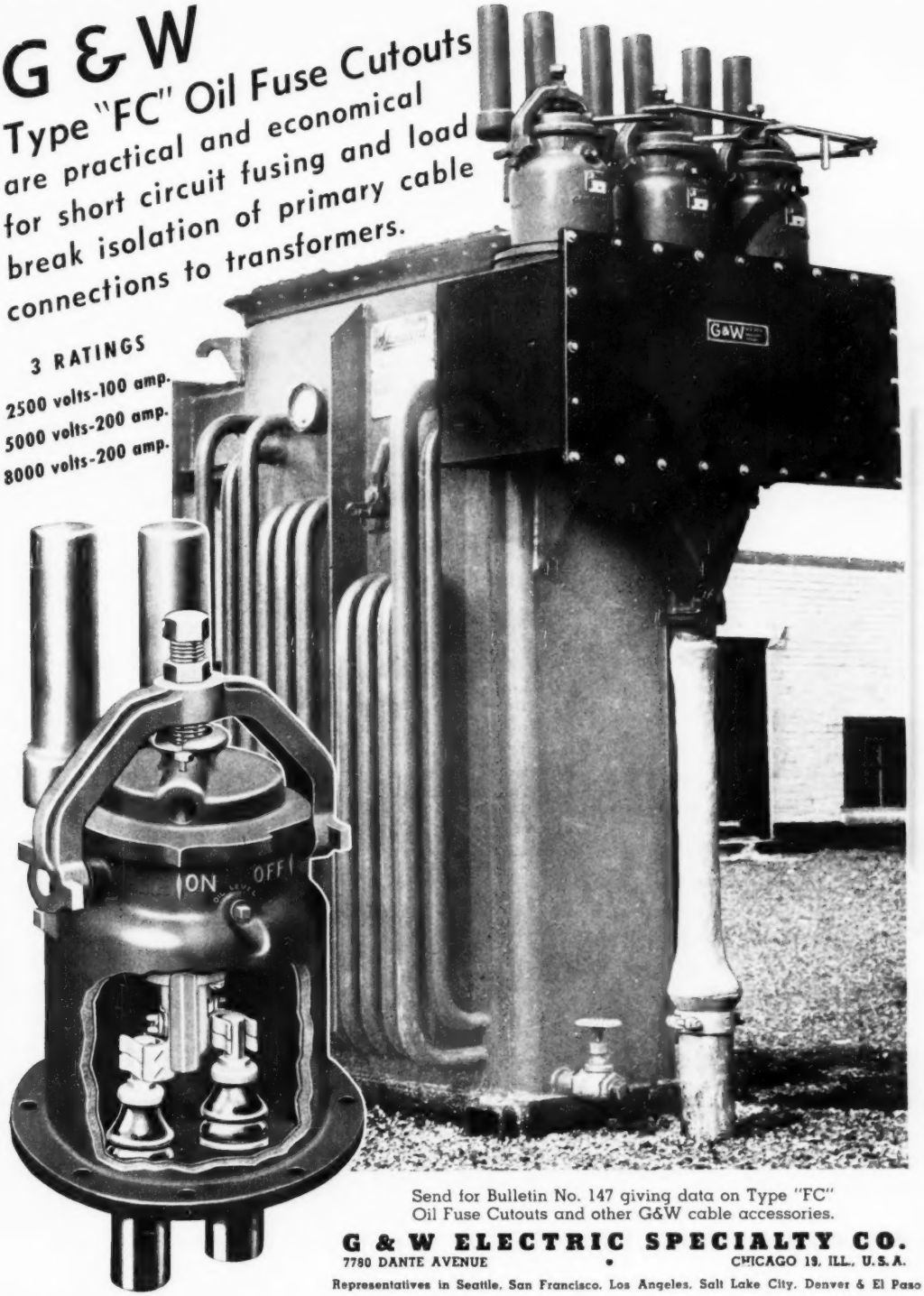
## Type "FC" Oil Fuse Cutouts are practical and economical for short circuit fusing and load break isolation of primary cable connections to transformers.

**3 RATINGS**

**2500 volts-100 amp.**
**5000 volts-200 amp.**
**8000 volts-200 amp.**

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## GREENLEE HYDRAULIC BENDER FOR PIPE, CONDUIT, TUBING, BUS-BARS

With a GREENLEE Bender one man quickly makes smooth, *accurate* bends in rigid and *thin-wall* conduit, pipe up to 4½", tubing, bus-bars. No kinking, wrinkling or other damage to conduit this way. And, since the GREENLEE is compact, portable, bending can be done *right on the job*. Easily pays for itself on first few jobs through big savings in time, labor, materials.

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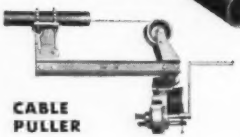
Eliminate tedious drilling and filing to enlarge a hole for conduit or cable. In 1½ minutes or less cut smooth openings up to 3½" in bakelite, hard rubber, or metal up to ⅛" thick. Turned with an ordinary wrench.



### CABLE PULLER

Easy-operating, compact unit for 7,500 pound pull. Fastens direct to conduit for pulling in line with conduit . . . no loosened hangers. Attachment available for concealed conduit work.

### BORING TOOLS

Designed especially for electricians to produce smooth openings in a hurry: No. 16 Unispur Electricians' Auger Bit . . . No. 21 Solid-Center Electricians' Auger Bit . . . No. 48 Bell Hangers' Drill . . . No. 900 Bit Extension.

### HAND BENDER

Quickly makes small-radius bends in steel, copper, brass and aluminum tubing, conduit, or pipe . . . without kinks or flattening. Especially designed to make neat bends up to 180° for sharp nooks and corners.

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GREENE ELECTRIC FURNACE CO., Seattle, Wash.

**GREENLEE TOOL CO., Rockford, Ill.—J. B. Lippincott Co., Seattle, San Francisco, Los Angeles. (See Adv., page 20.)**

GREGORY ELECTRIC CO., Chicago, Ill.—Branch office, Los Angeles.

GRIFFIN LAMP CO., Hamilton, Ohio — E. R. L. Boyd Co., Oakland, Calif.; Kenneth Peollot, Los Angeles; D. James Murray, Seattle; F. W. Van Eaton, Spokane.

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HARTFORD ELEMENT CO. INC., Hartford, Conn.—McCume Merifield Co., San Francisco, Los Angeles and Seattle; Cal Tool Production Co., Glendale, Calif.

HARTMAN ELECTRICAL MFG. CO., Mansfield, Ohio—Air Supply Co., Los Angeles; Martin Poggi, Seattle.

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**HENDERSON ELECTRIC CO., Ampere, N. J.—Geo. A. Gray Co., San Francisco; J. G. Pom**eroy Co., Los Angeles; Northwestern Agencies Seattle.

HERCULES ELEC. & MFG. CO., INC., Brooklyn 7, N. Y. Roberts Equip. Co., San Francisco; Western Distributors, Phoenix; New Mexico Steel Co., Albuquerque, N. M.; Mac Austin Co., Lubbock, Tex.; T. J. Kegg, Houston, Tex.

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**HESSE & COMPANY, W. A., Alameda, Calif. — "Hock"ensmith Sales, Los Angeles; J. W. Wat**kins, Seattle; Hawaiian Elec. Co. Ltd., Honolulu. **(See Adv., page 21.)**

HEVI DUTY ELECTRIC CO., Milwaukee, Wis. — Industrial Div.: **Pacific Scientific Co., Seattle, San** Francisco, Los Angeles, Laboratory Furnace Div.: Braun Corp., Los Angeles; Braun-Knecht-Heimann Co., San Francisco; Scientific Supply Co., Seattle.

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HITCHNER & HITCHNER, INC. Sandpoint, Idaho.

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HOFFMAN RADIO CORP., Los Angeles, Calif. — Branch office: San Francisco, W. J. Epstein, Mgr. Sold through distributors.

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HOMER COMMUTATOR CORP., Cleveland, Ohio—Electrical Specialty Co., San Francisco, Los Angeles, Seattle, Portland, Denver.

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HOPE WEBBING COMPANY, Providence, R. I.—C. D. LaMoree, San Francisco and Los Angeles.

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**HESSE**

Portable Silverplaters for Electrical Switchgear are "Best by Test."

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There is a size and grade of Crapo Galvanized Steel Strand for every practical need. Galvanized by the famous Crapo Process and furnished in the following grades: Siemens-Martin, High Strength, Extra High Strength, Commercial Grade (Extra Galvanized), Specification (Utilities) Grade 7-wire and Utilities Grade 3-wire Strand in all standard sizes.

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**Crapo STEEL Conductors**

Crapo HTC-130 and Crapo HTC-80 Solid and Stranded (3-wire) Conductors provide a combination of physical properties and electrical efficiency for the overhead transmission and distribution of power. Makes possible long spans with flat sags and greater ground clearances, reduces the number of pole structures required, saves material and man-hours.

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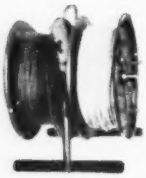
**PREFORMED ARMOR RODS**

Preformed Armor Rods provide a dependable, economical way to reinforce and protect overhead conductors and static wire at the point of and in the region of the support. Minimize wear and chafing; tend to absorb and dissipate vibration; protect against arcing and flashovers; excellent holding power against slippage. Available in galvanized steel, aluminum, copper or bronze.

INDIANA STEEL & WIRE COMPANY
MUNCIE, INDIANA



# HyKon
## Electricians TOOLS



HYKON Double Unit REELS
Wire may be reeled off top or bottom from any angle without kink or a snarl. Correct tension maintained allows reels to turn easily but never coast.

HYKON Extension Cord REEL
Light weight totally inclosed 30 amp collector. Portable—no kinks no knots — easy to handle — provides long cord life.

HYKON Store Room REEL
Strong, sturdy welded construction. Will not tip. Easily moved. No tangles.

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Write for catalog illustrating complete line of Electricians' Tools.

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**HOWZE & CO., W. D., Los Angeles, Calif.**

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**HUGHES BROS., Seward, Nebr.—Geo. E. Tarbox, Denver; Maydwell & Hartzell, Inc., San Francisco, Los Angeles, Portland, Seattle;** Industrial Eng. & Equip. Corp., Los Angeles. **(See Adv., page 43.)**

**HUGHEY & PHILLIPS, Los Angeles, Calif.—Hughey & Phillips,** San Francisco.

**HULLHORST TOOLS, INC.,** Toledo 7, Ohio Richardson Elec. Supply, Seattle; J. R. Christensen, Salt Lake City; Urquhart Service, Denver; Electric Agencies, Oakland, Calif.; Associated Sales Engineers, Los Angeles.

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**HYKON MFG. CO., Alliance, Ohio—**Fred D. Benz Co., San Francisco; L. J. Proby, Seattle, Wash.; J. C. Pomeroy, Los Angeles; Henry L. Guokas, Dallas. **(See Adv., page 22.)**

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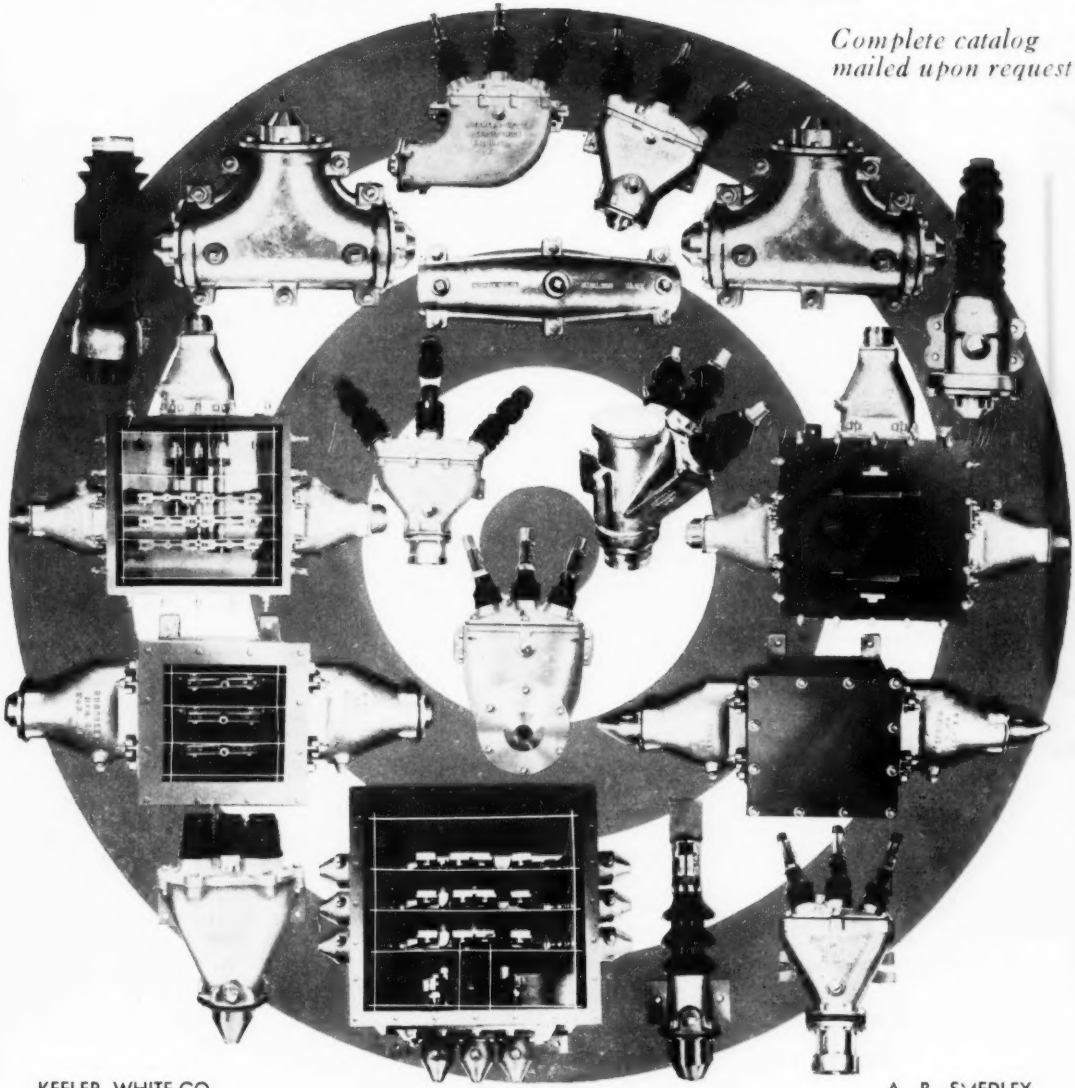

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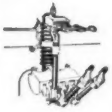

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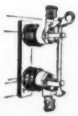

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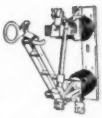

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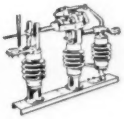

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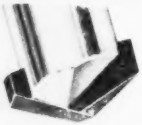

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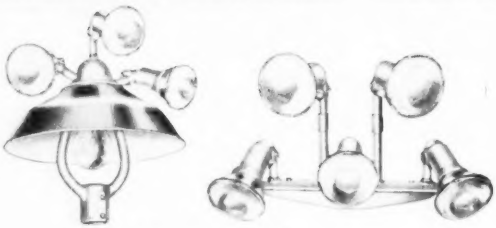

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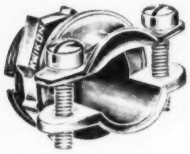
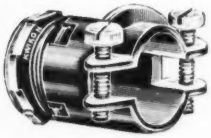


Catalog No. 1800

KWIKON "Take-All" Box Connectors for oval cable—two screws give double pressure with little effort.



Catalog No. 1802

KWIKON "Take-All" Box Connectors for round cable—loose clamping adapts itself to cable of any size.

Bracket Type
Tapped for 1/8" Pipe

KWIKON "No-Bolt" Studs, no small bolts or nuts to fuss with.

1/8" Fixture Nut

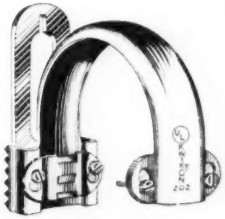
KWIKON Fixture Nuts 1/8", 1/4", 3/8", 3/8". Finished in Bright or Cadmium if specified.

Catalog No. 1521

KWIKON Service Entrance Heads can be used in horizontal or vertical position.

Catalog No. 6633

KWIKON 90° Squeeze Box Connectors can be used with "A-B-C" armored cable and flexible metallic conduit.




Catalog No. 202

KWIKON Service Cable Heads for type S-E cable—one head takes all sizes from 12-2 to 2-3 wire.

Catalog No. 412

KWIKON 1-Hole Clamps.

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LEONARD ELEC. MFG. CO., Cleveland, Ohio—Kirk-Palka Co., Los Angeles and San Francisco; F. W. Carlson, Seattle and Portland.

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LIONEL CORP., New York City—M. Sweyd & Son, San Francisco.

LITECONTROL CORP., Watertown, Mass.—Graybar Elec., General Elec. Supply, Westinghouse Elec. Supply. All principal cities.

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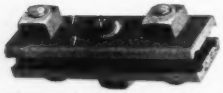

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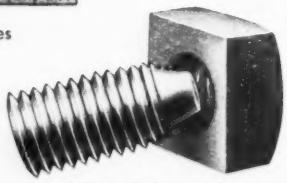

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Swinging Cups Prevents Burns. No Spilled Solder—Cup Holds Heat.

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Cuts holes ¾" to 6" in steel boxes, slate panels, etc., quickly and easily. Pressure spring and rachet wrench take the work out of it.

**"Jiffy" Snap-In BLANKS**

One piece Knockout Closers. Snap in like a glove fastener. Sizes for ½" to 2" Conduit Knockouts. The original Snap In Blank.

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Holds boxes in any kind of wall without use of nails or screws. Pre-formed to handle easy. Stops loss thru dropping behind wall.

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MAYTAG COMPANY, THE, Newton, Ia.—Maytag Northwest Co., Portland; Maytag West Coast Co., Los Angeles; Maytag Rocky Mountain Co., Colorado Springs; Maytag Southwestern Co., Dallas.

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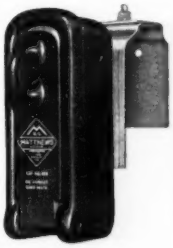

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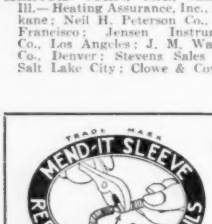
**MEYERS SAFETY SWITCH CO** San Francisco, Calif. **(See Adv., page 84.)**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MONOWATT, INC., Providence, R. I. W. S. Wanke, Los Angeles.

MONTGOMERY BROTHERS, San Francisco, Calif.—R. M. Hermann, Portland; R. W. Reed, Seattle; H. E. Oswald, Los Angeles. **(See Adv., page 86.)**

MORGANITE BRUSH CO., INC., Long Island City, N. Y.—C. M. Coffinberry, Los Angeles and Oakland, Calif.

MORSE, COMPANY, FRANK W., Boston 35, Mass. H. H. Van Liven, Los Angeles; Frank I. DuFrane Co., San Francisco.

MOTORCRAFT, Muncie, Ind.—Tri-State Supply Corp., Los Angeles, San Francisco and Seattle; Insulation & Wires, Inc., Los Angeles, San Francisco and Seattle; H. G. Rising, Los Angeles; General Electric Supply Corp., all principal cities; Elec'l Specialty Co., Los Angeles, San Francisco, Seattle, Portland and Denver. **(See Adv., page 30.)**

MOTOROLA, INC., Chicago, Ill.—J. M. Tuttle, Western Regional Manager, San Francisco. Distributors: McCormack & Co., San Francisco; Kierulff & Co., Los Angeles; Motorola Distributing Co., Seattle; Tubbs Electric, Spokane; Eoff Electric, Portland.

MUELLER ELECTRIC CO., Cleveland, Ohio—Harry E. Marshall, San Francisco.

MULLENBACH ELEC'L MFG. CO., Los Angeles, Calif. **(See Adv., page 32.)**

MULLINS MFG. CORP., Warren, Ohio—Thru leading distributors.

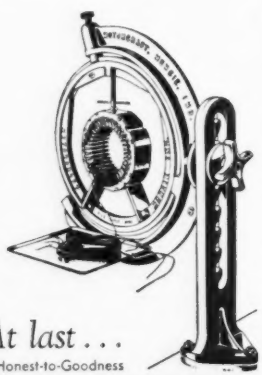
MULTI ELEC'L MFG. CO., Chicago, Ill.—Kenneth B. Schumann, Denver, Colo.

MULTI PRODUCTS MFG. CO., Los Angeles, Calif.—Melbourne Zigmond, Los Angeles; L. M. Baxter Co., San Francisco, Portland and Seattle; B & W Sales Co., Denver.

MURLIN MFG. CO., Philadelphia, Pa.—Allied Industries, San Francisco, Los Angeles and Seattle.

MURRAY MFG. CORP., Brooklyn, N. Y. A. B. Smedley, Pasadena, Calif.; Sales Engineers, Inc., Denver; Northwest Sales Co., Portland. **(See Adv., page 64 - 65.)**

**MU-SWITCH CORP., Canton, Mass. C. B. Parson & Co., Seattle;** Miller-Joyce, San Francisco; Geo. E. Anderson Co., Dallas, Tex.; Clyde P. Elliott, Haydon, Colo.

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NATIONAL ELECTRIC PRODUCTS CORP., Pittsburgh, Pa., and Torrance Calif.—Branch offices: Seattle, Portland, San Francisco and Los Angeles. Agents: Bacon's, Denver; Stevens Sales Co., Salt Lake City. (See Adv., page 32.)

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**NATIONAL ENAMELING AND MFG. CO., Pittsburgh, Pa.—Assoc. Wholesale Elec. Co., Los Angeles; F. H. Simmer Co., Dallas; Keeler, White Co., San Francisco, Seattle and Portland.**

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**NATIONAL VULCANIZED FIBRE CO., Wilmington, Del.—Dist. Offices: Seattle, San Francisco, Los Angeles.**

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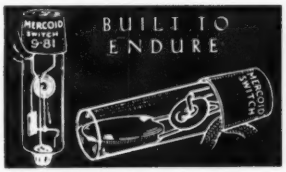


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The No. 855 thermostat is used for line voltage applications where it is desired to handle the full motor load directly without the use of a relay. Available with "on-off" manual switch for unit heater applications. These thermostats are used for heating, refrigeration and industrial applications.

### TRANSFORMER-RELAYS

Type V is a reliable low voltage mercury contact relay which also acts as a transformer inducing low voltage (24 volts) on the pilot circuit. There is no hum or chatter. Used for all types of automatic equipment. Available in various voltages, cycles and circuits.

### REMOTE STEM TEMPERATURE CONTROLS

For control of liquids or gases, such as air, oil, water, paraffin, glue or distillate vapors and many other industrial applications. A heavy gauge Bourdon tube is employed which is actuated by the expansion of volatile liquid within the remote bulb. The control is equipped with convenient outside double adjustments.

### LEVER ARM AND FLOAT CONTROLS

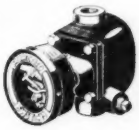
Mercoid lever arm controls have a variety of applications where it is desired to mechanically open and close electric circuits. They are used for maintaining fluid levels in tanks or for control of sump pumps or cellar drainers. The counter-balanced type is used on tanks where there is a surge in liquid. The plunger type is used on closed tanks.

### PRESSURE CONTROLS

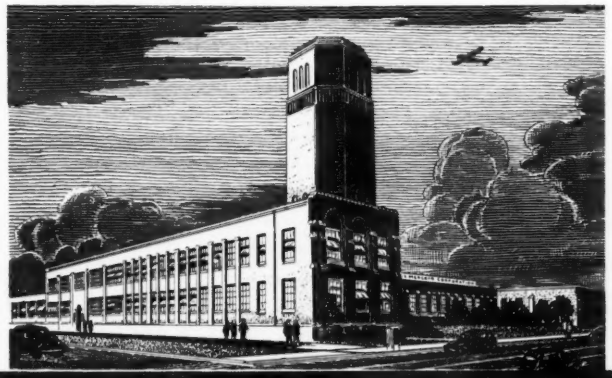
Available for numerous industrial applications. They are equipped with Bourdon tubes and have outside double adjustments which eliminate guesswork when setting the control. Indicators show the operating range on the calibrated dial. Available in many ranges and various circuits.

### LIQUID LEVEL CONTROLS

Designed for industrial applications for controlling low specific gravity liquids. Also available as a combination pressure and low water control, and as a boiler feed water pump control. These controls are available with explosion-proof cases for use in hazardous locations.



**If you have a problem involving the automatic control of pressure, temperature, liquid level, mechanical operations, etc., it will pay you to consult Mercoid's engineering staff — always at your service.**



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**NEW JERSEY WOOD FINISHING CO., Woodbridge, N. J.—Tri-State Supply Corp., Los Angeles**, San Francisco, Seattle; Insulation and Wires, Inc., San Francisco and Los Angeles.

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NORTHERN INCANDESCENT LAMP CO., Hoboken, N. J.—The Frank H. Bran Co., San Francisco, Los Angeles; W. L. Kopke Sales Co., Denver.

NORTHERN RADIO CO., Seattle, Wash.

NORTON ELECTRICAL INSTRUMENT CO., Manchester, Conn.—Electronic Specialty Representatives, Portland; G. N. Somerville, San Francisco.

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**OHIO ELECTRIC MFG. CO., THE**, Cleveland, Ohio—F. E. Burnett, Portland; A. S. Lindstrom, San Francisco; Lombard Smith Co., Los Angeles; Mine & Smelter Supply Co., Denver, Salt Lake.

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**O. Z. ELEC'L MFG. CO., INC.**, Brooklyn, N. Y. — William A. Proby, Seattle, Wash.; Agencies Co., Los Angeles and San Francisco; P. A. Michler, Dallas; Barney Winkler, Houston; E. A. Ryan, Portland; E. Chester Holloway, Denver.

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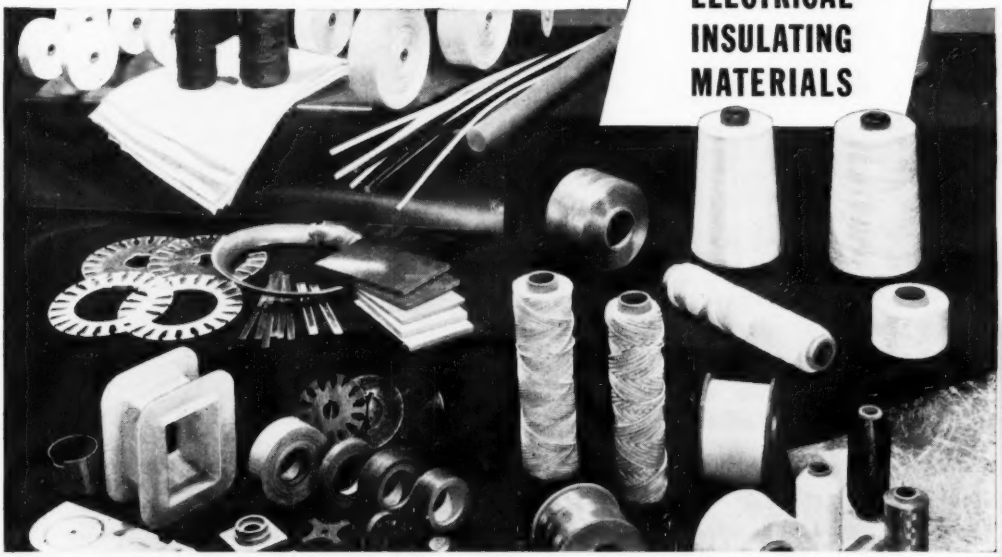

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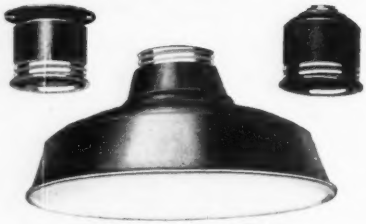

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PIERCE RENEWABLE FUSES, INC., **Buffalo, N. Y.—Northwest** Sales Co., Portland; Slaybaugh-Thompson Co., Denver; J. C. Richards and Co., Los Angeles; Robert R. Prussia Co., San Francisco; Glidden Eng. & Equipment Co., Houston.

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PLAS-TEX CORP., West Los Angeles.

**PLASTOID CORP., New York City** —Don Porter, Los Angeles Calif.; J. B. McDonald, Dallas.

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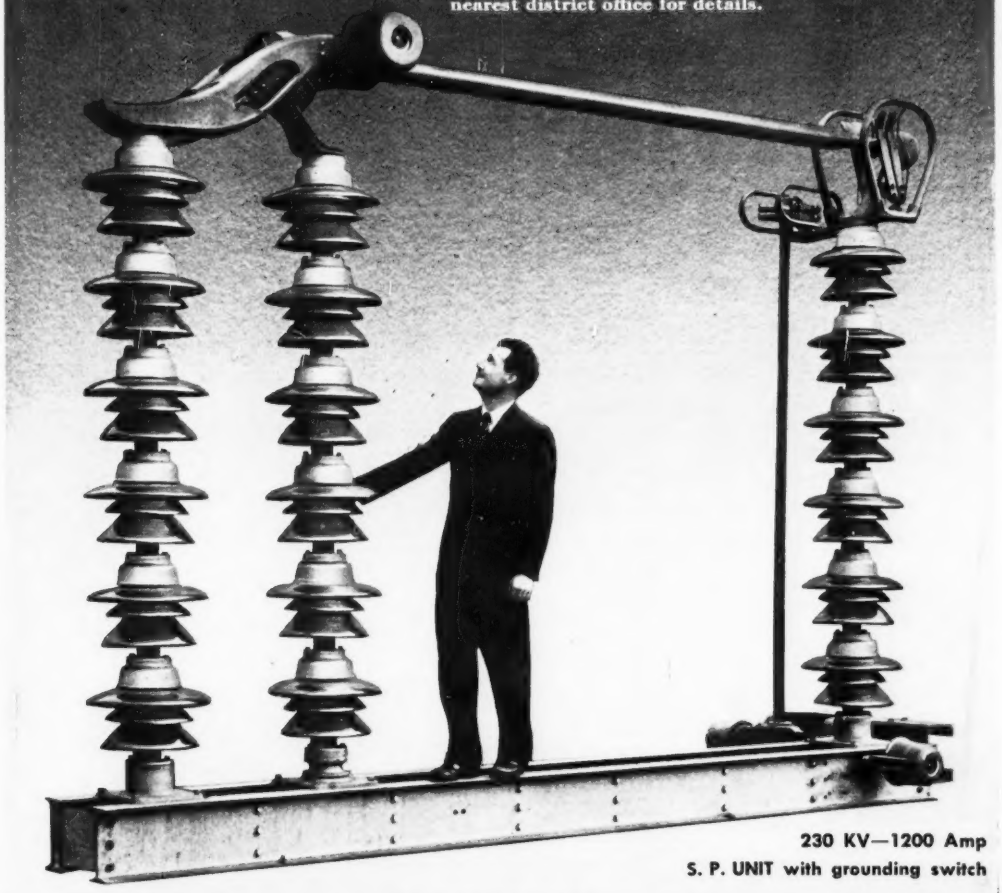
# the "MK-40" AIR SWITCH for 230 kv

As loads increase, transmission voltages go up. When you plan your 230-kv transmission system remember there is a tried and proved "MK-40" switch available for your switching stations. The same principle of design and the same advantages as the "MK-40" for lower voltage ratings.

Write for Publication 4807 or consult our nearest district office for details.



230 KV—1200 Amp
S. P. UNIT with grounding switch

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# RELIANCE AUTOMATIC LIGHTING CO.

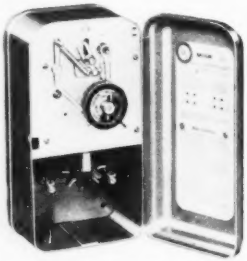
1939 MEAD ST. RACINE, WIS.

CHAS. A. MEIER CO. 1473 Harrison St. San Francisco, Calif.
The ED. WARBURG CO. 1207 E. 8th St. Los Angeles, Calif.
B. & W. SALES CO. 100 W. 13th Ave. Denver 4, Colo.

## THE RELIANCE LINE OF TIME SWITCHES . . .

• Reliable devices for automatically controlling circuits where current is to be turned on and off at predetermined times daily. Fully guaranteed by the manufacturer and approved by the Underwriters' Laboratories.

### "BADGER" TIME SWITCHES



This synchronous electric model is specifically a heavy duty time switch designed and built to meet the demand for a reasonably priced switch with a capacity great enough to meet a wide variety of requirements.

The heavy copper to copper switch is revolutionary in design, embodying self-adjusting floating contacts" which insure positive contact and uniform tension. Easily operated by hand when desired.

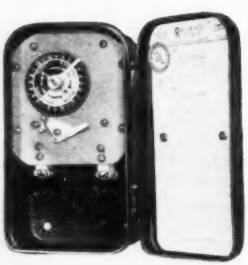
A heavy duty self starting motor, regularly furnished for 60 cycle, 110-125 volt current, comprises the time element and a convenient neutral tap to the motor permits connecting the switch to a 3-wire circuit, switching the 250 volt line.

Sheet steel cases have combination knockouts for ¾ and 1 inch conduit at sides, bottom and back. Size 5¼x10x4¼ inches deep. Cast aluminum cases are fully gasketed, weatherproof and padlockable. Two holes are drilled in bottom for ¾ inch conduit. Size 6¼x9½x4¾ inches deep.

**All types are single throw (straight ON and OFF)**

| Type | Poles | Switch Capacity | Case |
|---|---|---|---|
| M1 | 1 | 50 A. at 125 V. | Sheet Steel |
| M2 | 2 | 50 A. at 125/250 V. | Sheet Steel |
| RM | 1 | 50 A. at 125 V. | Cast Aluminum |
| RM5 | 2 | 50 A. at 125/250 V. | Cast Aluminum |

### "MODEL W" TIME SWITCHES



An extremely simple, compact, economical and dependable time switch which with only three types, covers practically every time switch requirement.

Utilizes the same heavy duty self starting synchronous motor as used in the Badger model and the large silver contacts are rated at 30 amperes per pole at 125-250 volts.

Special attention is directed to the Type W-33 which controls two separate circuits independently or simultaneously by merely setting the trip hands for the desired schedule of operation.

Case is of 20 gauge steel finished in hammerloid enamel. Combination knockouts for ½ and ¾ inch conduit are furnished at the bottom, back and sides. Size 4 x 7 x 4 inches deep.

| Type | Poles | Throw | Switch Capacity |
|---|---|---|---|
| W-11 | 1 | Single Throw | 30 A. at 125 V. |
| W-22 | 2 | Single Throw | 30 A. at 125/250 V. |
| W-33 | 2 | Two Circuit | 30 A. at 125/250 V. |

Astronomic dial available on types W-11 and W-22.

***Complete catalog gladly furnished on request.***


**PRIME MFG. CO., Milwaukee, Wis.—Westinghouse Elec. Supply Co.,** all principal cities; sold thru leading hardware and electrical wholesalers.

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PROCTOR ELECTRIC CO., Philadelphia, Pa.—C. P. Culbert, Regional Mgr., Los Angeles, Calif.; Western District Managers — T. W. Ball, San Francisco; E. I. Snyder, Portland; Howard Peugh, Denver; J. G. Booth, Phoenix.

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**QUADRANGLE MFG. CO., Chicago, Ill. — Keeler White Co., Seattle, Portland, San Francisco;** A. Allen Smith, Los Angeles. **(See Adv., page 34.)**

QUAKER MFG. CO., Chicago, Ill.—Sold through leading distributors.

QUALITY GLASS CO., Van Voorhis, W. Va. — **E. B. Cook, San Francisco;** J. D. Reynolds, Los Angeles; M. B. Walker, Tacoma, Wash.

**R. L. M. STANDARDS INSTITUTE**—Chicago, Ill.

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RADIANT GLASS HEATING CORP., Los Angeles, Calif.

RADIANT LAMP CORP., Newark 8, N. J.—Branch office, Mr. Carl Krueger, Los Angeles.

RADIANT LIGHTING FIXTURE CO., New York City—Branch office: Mr. Steve Hoffman, San Francisco; P. O. Meid & Co., Los Angeles.

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RADIRON CORP., Miamisburg, Ohio—Russell & Co., San Francisco; Alan Moore & Co., Los Angeles; Burton Sales Co., Los Angeles; D. A. Steinkamp & Co., Denver.

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RAPID ELECTROPLATING PROCESS, INC., Chicago, Ill.—C. S. Jones, San Francisco.

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**RED SPOT ELEC. CO., Tacoma, Wash.**

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RELIANCE AUTOMATIC LTG. CO., Racine, Wis. Chas. A. Meier Co., San Francisco; Ed Warburg Co., Los Angeles; B. & W. Sales Co., Denver. **(See Adv. page 36.)**

**RELIANCE ELECTRIC & ENG'G. CO., Cleveland, Ohio. — L. F. Newton, Portland; F. G. Guthrie,** San Francisco; H. A. Latta, Los Angeles; C. Kirk Hillman, Seattle; Peterson Co., Denver; Clarence W. Silver Co., Salt Lake City.

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# RELIABLE ELECTRIC COMPANY

**3145 CARROL AVE. CHICAGO 12, ILLINOIS**

## POWER LINE CONNECTORS *Reliable* and CONSTRUCTION SPECIALTIES

### SOLDERLESS CONNECTORS

The Forged Bolt Type illustrated is designed for copper and Copperweld wires. Made of high strength copper alloy. Thirteen sizes available, from No. 9 AWG solid to 1000 MCM. Supplied with spacers for use on stranded conductors. Other types available include Plated and Aluminum Connectors.

### FLIP ON TAP CLAMPS

For connecting aluminum to aluminum, steel, or copper taps. Made in three sizes. All contacts of similar metal, eliminating corrosion.

### HOT LINE CLAMPS

Copper clamps for copper or Copperweld wires. Plated copper clamps for galvanized steel, ACSR or copper wires. Aluminum heat treated clamps for ACSR over armor rods with aluminum steel or copper taps.

### GROUND ROD CLAMPS

Three styles — bronze and galvanized steel clamps for attaching heavy ground wires to rods, galvanized steel Kling Klamps for grounding small ground wires to steel rods, and tinned copper station ground clamps for grounding communication circuits to ⅜" to 1¼" OD pipe.

### CONCENTRIC CABLE CLAMPS

For attaching service entrance cable to pole and house. Both types are made for round and oval cable. Seven sizes available for all popular size cables of two or three wire type. Clamps are made of non-corrosive materials, wedge 85% copper alloy, shell electrolytic copper.

### STRAIGHTLINE SPLICES

Made in sizes 6 sol. AWG to 250 MCM for copper wire. Other special types for Copperweld wires, Copperweld Type A, Amerductor or Anaconda composite conductors, and steel wires. Screwdriver slot release on all splices.

As added insurance that splice jaws will tighten under heavy corrosion conditions at light tensions, and to exclude troublesome grit, splices are packed with neutral grease and individually enclosed in double cellophane envelopes.

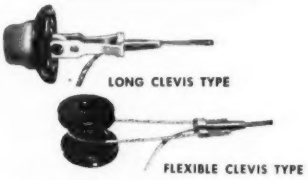
### ACSR SPLICES

The perfect splices for #2 and #4 ACSR 6/1 and 7/1. Easily installed, low in resistance, and develops full strength of conductor.

### INSULATED SPLICES

For series lighting circuits, secondary banking, etc. Insulator resists mechanical shock and does not track. Made with insulated sections 1" and 3½" long.

### STRAIGHTLINE DEADENDS




Made for same conductor types and sizes as Straightline Splices. Long Clevis Type permits feed-thru of conductor deadended to disc insulator. Flexible Clevis Type permits feed-thru of conductor deadended to strain or spool insulator. All splices and deadends develop full line wire strength and conductivity, making a corrosion resistant joint which will not loosen under vibration.

### ACSR SNUB DEADEND

The Reliable No. 420 Snub Deadend is made of high strength, non-corrosive aluminum alloy, is low in cost and accommodates No. 2 or No. 4 ACSR. The spiral form of this deadend for ACSR carries the snub principle to full advantage. This clamp develops approximately the full strength of the conductor and distributes the strain equally on all strands.

### SPLICING SLEEVES

SINGLE TUBE TYPE

Single tube seamless copper sleeves are so made to minimize the chance of making poor joints. Split Tinned copper sleeves for stranded conductors, for use on round or sector cable, are smoothly tinned and easily soldered. Wire sizes from 10 AWG to 250 MCM. Both types conform to E. E. I. specifications.

### SQUEEZ SLEEVES

COMPRESSION TYPE

Joints are constant in low resistance. They are gastight so that corrosive gases and moisture cannot penetrate. Made for bridle, drop and inside wires, for copper and Copperweld line wires and galvanized steel wires. Designed for use in common sizes of compression tool die grooves.

### CABLE HANGERS

For attaching cable to messenger. Available in copper and zinc, in 8 sizes in capacities from 5/16" strand and ¾" cable to ⅜" strand, 3" cable.

### CABLE GRIPS

For pulling cables in overhead rings or underground ducts. Made of flexible high strength steel, 8" to 48" lengths. Also luffing grips for side pulling, single or double eye types in 18" or 24" lengths, single weave or double weave. All above types made for diameters ¾" to 4".

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Representing:

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MOTORS AND GENERATORS AND M.G. SETS
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- Modern streamline drip proof frames to 300 H.P.
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HIGH VOLTAGE SWITCHING EQUIPMENT
- Complete line of station and line switches, interrupters, bus fittings and structures

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EARTH GUY ANCHORS
- Steel expanding type
WIRE STRINGING PULLEYS
WIRE LAY-UP GINS

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THE POST-GLOVER ELECTRIC COMPANY
CHROMIUM STEEL GRID RESISTORS
HEAVY DUTY RHEOSTATS

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ROBERSON CO., L. N. — Seattle, Wash.

ROBERTS & MANDER CORP., Hatboro, Pa.—A. R. Johnson Co., San Francisco and Los Angeles; Gilbert Bros., Inc., Portland.

ROBERTSON CO., H. H., Pittsburgh, Pa.—J. W. Herron, San Francisco.

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ROPER CORP., GEO. D., Rockford, Ill.—Branch offices: T. H. Hall, Los Angeles; Geo. W. Baldwin, San Francisco.

ROTISS-O-NAT CORP., New York City — A. B. Murphy Co., San Francisco.

ROYAL ELECTRIC CO., INC., Pawtucket, R. I.—Eckert-Lloyd Corp., San Francisco, Los Angeles; Northwestern Agencies, Seattle; Wm. Benndorf, Phoenix; E. C. Holloway Co., Denver.

ROYAL ELECTRIC MFG. CO., Chicago, Ill.—Industrial Eng'g. & Equip. Co., Los Angeles; W. A. Lefler, Casper, Wyo.

RUBY LIGHTING CO., Los Angeles, Calif. Through jobbers only.

RUGGLES-KLINGEMANN MFG. CO., Salem, Mass.—G. M. Cook, Los Angeles; Instrument Sales Co., Seattle; O. J. Grendahl & Son, Phoenix; Hendrie & Blothoff Mfg. & Supply Co., Denver; C. H. Spencer & Co., Salt Lake City.

RUSGREEN MFG. CO., Detroit, Mich.—Keeler White Co., Seattle, Portland; A. B. Smedley, Pasadena and San Francisco; O. J. Grendahl & Sons, Phoenix. (See Adv., page 23.)

RUSSELL & STOLL COMPANY, New York City—Allied Industries, Seattle, San Francisco, Los Angeles; Glidden Eng. & Equip. Co., Houston.

RUSSELL, BURDSALL & WARD BOLT & NUT CO., Port Chester, N. Y.—Branch offices: Los Angeles; George L. McLaren, Seattle; Glen G. Gillette, Portland; T. J. Dunn, Oakland.

RUSTIC CRAFTS CO., THE, New York, N. Y.—A. C. Maryon & Co., San Francisco, Los Angeles and Seattle.

RUTENBER ELECTRIC CO., Marion, Ind.—Frank H. Barstow, Los Angeles; Lloyd D. Marsh, Seattle; W. E. Gnadt, Salt Lake City.

S-A MFG. CO., Detroit, Mich.—Wm. J. Cottrell, Portland; Warren D. Taylor, San Francisco.

SAFE-T-SEAL LABORATORIES, Los Angeles.

SAFETY ELECTRIC CO., Chicago, Ill.—Panama Lamp & Commercial Co., San Francisco.

SAFETY LIVE LINE TOOL CO., Oakland, Calif. — Slaybaugh & Thompson, Denver.

SAFETY SWITCHBOARD CO., San Francisco, Calif. (See Adv., p 40.)

ST. LOUIS MALLEABLE CASTING CO., St. Louis, Mo.—Maydwell & Hartzell, Inc., San Francisco, Los Angeles, Seattle, Portland.

ST. REGIS SALES CORP., Panelyte Div., New York City—Elec. Specialty Co., San Francisco, Los Angeles, Seattle, Portland, Denver.

SALISBURY & CO., W. H., Chicago, Ill.—R. E. Cunningham & Son, Los Angeles; Graybar Elec. Co.; Line Material Co.

SAMSON UNITED CORP., Rochester, N. Y.—C. D. Belt, Denver; J. W. Marsh, Los Angeles; J. E. Bennett, San Francisco; W. W. Wheat & Son, Seattle.

SCHENECTADY

The Schenectady Varnish Company
Schenectady, New York

THE SCHENECTADY VARNISH COMPANY
43 years of electrical experience

Varnishes, Enamels, Compounds

Engineered and stocked in the West by
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San Francisco 3, Calif.
HEmlock 1-4738
**SANGAMO ELECTRIC CO.**
Meters, Instrument Transformers, Time Switches, Capacitors
**SUPERIOR SWITCHBOARD & DEVICES CO.**
Meter Enclosures and Test Devices
**H D ELECTRIC CO.**
Max-I-Meters for Transformer Testing
**TIME-O-MATIC CO.**
Sign Flashers, Special Time Controllers, Scoreboard Clocks

**Safety Switchboard Co.**
Representing
**BULLDOG ELECTRIC PRODUCTS CO.**
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Safety Switches
Switchboards
Panelboards
1445 Stevenson St.
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SAN FRANCISCO 3, CALIF.
HEmlock 1-2470

**SHEPLER Ventilating Fans**

Requires only 7¼" joist space.

AUTOMATIC CEILING FAN

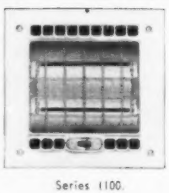
Fan controlled by regular wall switch or Shepler Model "S" 3-speed switch, which can be positioned in any convenient location.

This 10" fan is particularly suitable for use where wall space is limited. Quickly and easily installed, only the polished aluminum grille shows. Motor and fan are attached to this grille to facilitate removal for cleaning.

Shepler also makes a complete line of 8" and 10" kitchen fans. All feature automatic shutters, weathertight seal, sponge rubber seats and are rated at 650 C.F.M. (free air delivery)

**RADIA Electric Wall Heaters**
with the Globar Heating Element

Inexpensive to install and operate. Radia Wall Insert Heaters combine radiant and convection principles of heating to provide "extra" warmth in less than sixty seconds. There are no fans or motors—no moving parts to get out of order. Available in models from 660 to 3,000 watts.



Series 1100.

*Radia Wall Heaters and Fans carry Underwriters' Laboratories Seal.*

*See Sweets Catalog for specifications*

For details, see your local distributor or write direct.

RADIA

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SARGENT-RAYMENT CO., Oakland, Calif.

SAUEREISEN CEMENTS CO., Pittsburgh, Pa. — Montgomery Bros., Seattle, Portland, San Francisco, Los Angeles.

SAV-U-TIME SALES CO., Rochester, N. Y.—H. M. Butcher, San Francisco.

SAVE ELECTRIC CORP., Verd-A-Ray, Toledo, Ohio. — Nelson R. Thomas Agency, Inc., San Francisco, Los Angeles, Seattle; Glen F. Fansler Co., Seattle, Portland.

**SAYLOR ELEC. PRODUCTS CORP.**, Detroit, Mich.—Frank H. Bran Co., San Francisco, Los Angeles; Branch Plant, Glendale, Calif.; C. A. King Co., Seattle; Geo. E. Anderson Co., Dallas.

**SAYLOR & SON, F. D., Detroit, Mich. — Allied Industries, Inc., Seattle, San Francisco, Los Angeles.**

**S & C ELEC. CO. (formerly Schweitzer & Conrad), Chicago, Ill.—T. S. Wood, Seattle; Geo. E. Honn Co., San Francisco; R. E. Cunningham & Son, Los Angeles; Chas. E. Klaus, Portland; Hoffman Eng., Albuquerque; Riter Engineering, Salt Lake City; Peterson Co., Denver.**

SCHENECTADY VARNISH CO., INC., Schenectady, N. Y.—Electrical Specialty Co., San Francisco, Los Angeles, Seattle, Portland and Denver. **(See Adv., page 38.)**

SCHICK SERVICE, INC., Stamford, Conn.—Branch Offices, San Francisco, Los Angeles, Denver, Portland and Seattle.

SCHOTT CO., WALTER L., Beverly Hills, Calif. Charles N. Meyer, c/o J. W. Marsh Co., San Francisco; M. F. Klicpera, Houston; Frank Wedel, Seattle; John B. Tubergen, Los Angeles.

SCHWAGER-WOOD CORP., Portland, Ore.—Love Electric, Tacoma; Ryals Electric Co., San Francisco.

SCHWARZE ELECTRIC CO., Div., Sperti-Farraday, Adrian, Mich. — J. J. Lisiecki, Seattle; Chas. A. Meier Co., San Francisco.

SCOTT & FETZER CO., Cleveland, Ohio—District office, Portland; Distributors: Kirby Co., Seattle, Tacoma, Portland, Cheyenne; Kirby Vacuum Cleaner Co., Spokane; Northwest Kirby Co., Bellingham.

SEGIL CO., THE, Chicago, Ill.—Branch office: Los Angeles; Maynard Wagner, San Francisco; Milton Levkowitz, Salt Lake City; C. E. Wymer Sales, Salt Lake; B & W Sales Co., Denver; Al Slater & Associates, Seattle.

SENTINEL RADIO CORP., Evanston, Ill.—E. J. Jordan, Los Angeles; J. J. Backer, Seattle; Wm. H. Connors, Denver.

SERVALL CO., Detroit, Mich. Thru leading electrical distributors.

SERV-ALL MFG. CO., Chicago, Ill. Allen & Dare, Los Angeles; Pete Bach Electric, Portland; Allen H. Carpenter, Denver; Edw. C. Beasley & Associates, Dallas, Tex.

SERVEL, INC., Evansville, Ind. — Carl L. Olin, Los Angeles.

**SETH THOMAS CLOCKS, Div. GENERAL TIME INSTRUMENTS CORP., Thomaston, Conn. — Schloss Mfg. Co., San Francisco.**

**SHELDON ELEC. CO., INC., Irvington, N. J.** — H. G. Sheffer, Phoenix; G. D. Norris Co., Seattle; W. Cliff McLoud, Denver; Sheldon Elec. Co., Los Angeles.

**SHELDON SERVICE CORP., Long Island City, N. Y.—Pacific Electro Sales, Seattle, San Francisco, Los Angeles.**

**SHELL OIL CO., INC., San Francisco.**

**SHEPLER MFG. CO., Pittsburgh,** Pa. Electric Agencies, Seattle; E. R. Young, Billings, Mont.; E. H. Rumer, Salt Lake City; J. D. Sheehan & Associates, Dallas; Kent Engineering Co., Denver. **(See Adv., page 40.)**

**SHERMAN MFG. CO., H. B., Battle Creek, Mich.—Detsch & Co.,** San Francisco.

**SHURE BROTHERS, Chicago, Ill. —Northwestern Agencies, Seattle;** Eugene Betman, San Francisco; W. Bert Knight, Los Angeles; F. Y. Gates, Salt Lake City.

SIGMA INSTRUMENTS, INC., Boston, Mass.—E. V. Roberts & Associates, Hollywood, Calif.; E. G. Hendrickson, Spokane.

SIGNAL ELECTRIC MFG. CO., Menominee, Mich. Kenneth Anderson Co., Los Angeles; Keeler-White Co., San Francisco, Seattle, Spokane, Denver and Portland. **(See Adv., page 42.)**

SIGNAL ENGINEERING & MFG. CO., New York City—Albert S. Knight, Seattle; W. J. Mountford, Houston; W. N. Wright, Dallas; H. H. Van Luven Co., Los Angeles.

SILENT SIOUX OIL BURNER CORP., Orange City, Iowa L. O. Morin Sales Co., Los Angeles; Lynn & Chemnitz, Seattle.

SILEX COMPANY, Hartford, Conn. Earl H. Barker, Pacific Coast Mgr., Los Angeles; A. L. Anderson, Dist. Mgr., San Francisco; Fisher-Meier Co., Seattle and Portland; James H. Blinn Co., Denver.

SILVRAY LIGHTING, INC., New York City—Graybar Electric Co. all cities; B. T. Heinz and W. W. Wheat & Sons, Seattle; C. T. Bakeman, San Francisco; Hugh X. Sheeter, Los Angeles.

SIMONDS MACHINE CO., INC., Southbridge, Mass.—A. A. Barbera, Los Angeles; J. F. Cody, San Francisco.

SIMPLET ELECTRIC CO., Chicago, Ill. Fred Staible, Denver; L. V. Maxson, Dallas; Fred D. Benz & Co., San Francisco; Harry D. Morton, Los Angeles.

**SIMPLEX WIRE & CABLE CO., Cambridge, Mass.—Branch Offices: Seattle, San Francisco, Los Angeles.**

SIMPSON ELECTRIC CO., Chicago, Ill. C. R. Lynch, Los Angeles; W. J. Purdy, San Francisco; D. H. Burcham, Portland; R. G. Bowen, Denver; J. Y. Schoonmaker, Dallas.

SKF INDUSTRIES, INC., Philadelphia, Pa. Branch offices: J. C. Bowman, San Francisco; W. F. Weidner, Los Angeles; E. Isopera, Portland.

SKILSAW, INC., Chicago, Ill.—Branch offices: Paul Jones, Los Angeles; Robt. Morse, Seattle.

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SMITHCRAFT LIGHTING DIV., Chelsea, Mass. — Fred D. Benz, San Francisco; William Benndorf, Phoenix; W. D. Howze, Los Angeles; John A. Baker, Denver; J. R. Penning, Seattle.

SMOOT-HOLMAN COMPANY, Inglewood, Calif. Branch office in San Francisco, C. E. Smoot, Jr; Fred Zaugg, Portland; J. R. Christensen, Salt Lake City; F. C. Scharr, Seattle; P. Smoot, Houston; J. S. Edwards, Vancouver, B. C.

SOAPSTONE CO., San Francisco.

**SOLA ELECTRIC CO., Chicago, Ill. —Edw. S. Sievers, Los Angeles; Hodges & Glomb, San Francisco;** Northwestern Agencies, Seattle; J. M. Smith, Los Angeles.

SOLAR ELECTRIC CORP., Warren, Pa. Marius-McKamy Sales Corp., Ed Warburg Co., Hobson & Schultz, Los Angeles; H. W. Moller, McMillen & Stanley and Lynn & Chemnitz, San Francisco; Reitz Sales, Denver; A. R. Staley Sales, Phoenix and El Paso; A. J. Elggren, Salt Lake City; Chas. L. Tolliver, Billings; Kopke Sales, Denver and Albuquerque.

SOLAR CAPACITOR SALES CORP., No. Berger, N. J. R. G. Bowen, Denver; Jas. P. Hermans Co., San Francisco; Harry A. Lassure, Los Angeles; J. Y. Schoonmaker, Dallas; H. G. Sheffer, Phoenix; Dave M. Lee Co., Seattle.

**SON-CHIEF ELECTRICS, INC., Winsted, Conn.—P. B. Miller, Oakland; V. T. Rupp, Los Angeles.**

SORGEL ELEC. CO., Milwaukee, Wisc. Fred Carlson, Seattle; H. D. Easterbrook, Los Angeles; Campbell & George Co, San Francisco; J. E. Edstrom, Portland; A. J. Elggren & Sons Co., Salt Lake City; Wilson Electric Equip. Co., Houston, Tex.; Floyd H. Boyer, Denver. **(See Adv., page 4th cover.)**

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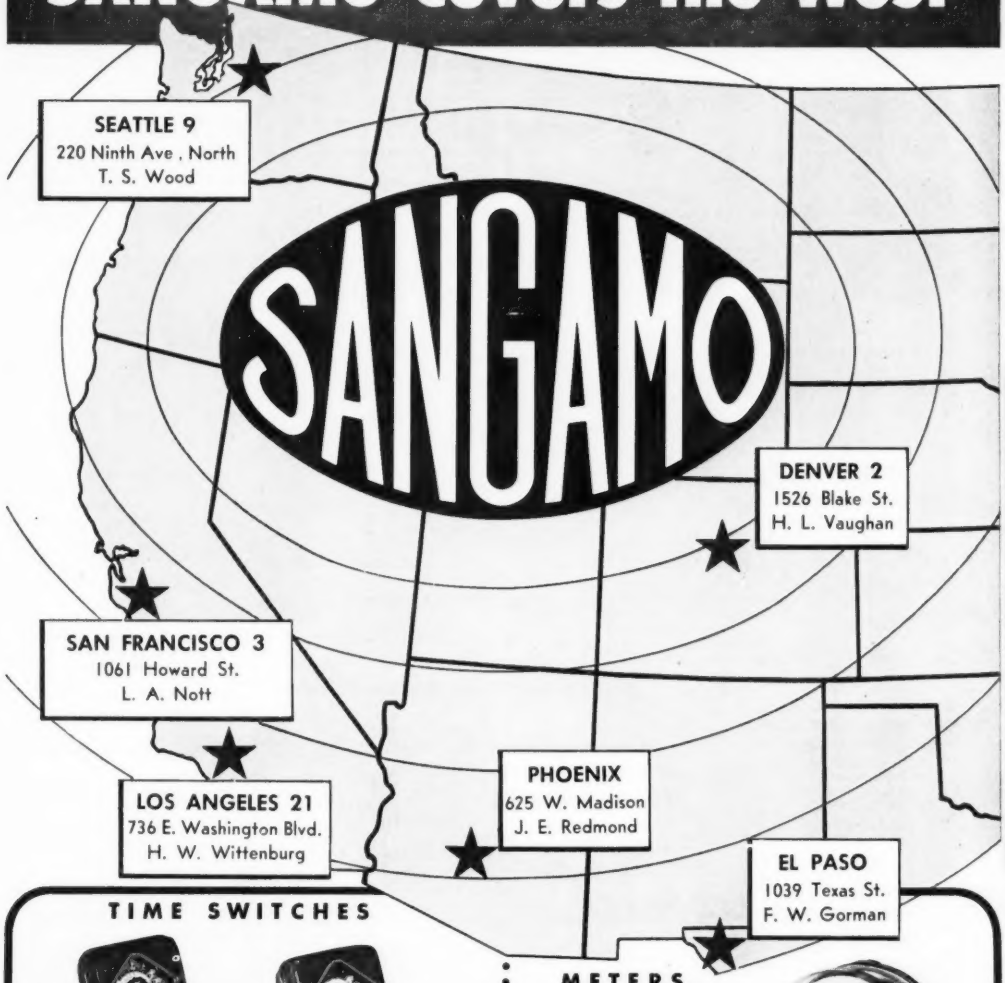
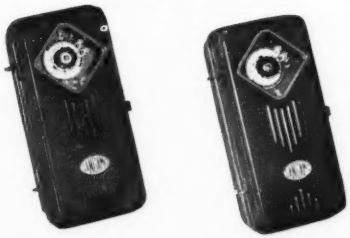
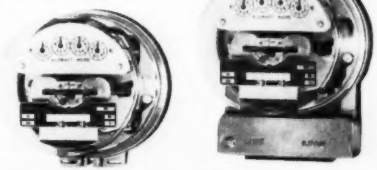



TIME SWITCHES



METERS



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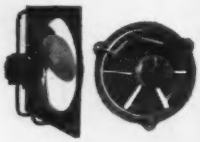
**FANS** *Signal* builds streamlined desk and pedestal models, oscillating and non-oscillating; blade sizes range from 10" to 24".

**KITCHEN VENT FANS**

Two wall sizes are available—adjustable for wall thicknesses 6" to 24". *Signal's* moderate price puts quiet, efficient kitchen ventilation in the reach of every home owner.

**VENT and EXHAUST FANS**

*Signal* Exhaust Fans and *Signal's* Challenger Line of Vent Fans have a well established reputation for high performance and low cost in all industrial, commercial and domestic installations.



**DRILLS** *Signal* gives you everything you want in a drill—air-cooled, grip-fitted handle . . . light weight . . . correct balance . . . dependable power . . . plus many years of trouble-free service.

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Yes, for over a half century, *Signal* has been a familiar name to buyers of electrical equipment who insist on top quality at moderate price.

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SOUTHERN STATES EQUIPMENT CORP., Hampton, Ga.—Pacific Electro Sales Inc., San Francisco, Los Angeles and Salt Lake City; J. C. Platt, Seattle.

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SPAULDING FIBRE COMPANY, INC., Tonawanda, N. Y.—C. D. LaMorce, Seattle, Berkeley, Los Angeles.

SPECIALTY DEVICE CO., The, Cincinnati, Ohio—Geo. E. Honn Co., San Francisco; Earl S. Condon Co., Los Angeles.

SPEEDWAY MFG. CO., Cicero, Ill.—J. J. Backer, Seattle; Denham Sales & Service, San Francisco; Pacific Industrial Products, Oakland; Electrical Specialty Co., Los Angeles; M. G. Mueller, P. A. Littell, Denver; L. P. Fletcher, Dallas.

SPENCER THERMOSTAT CO., Attleboro, Mass.—Instrument Sales Co., Seattle; F. H. Appleton, Pasadena.

SPERO ELECTRIC CORP., THE, Cleveland, Ohio—Hodges & Glomb, San Francisco; Bacon's, Denver; Pete Bach, Portland.

SPERTI - FARADAY INC., Adrian, Mich.—Chas. A. Meier Co., San Francisco; P. W. Cook, Los Angeles; Leonard Slusser, Salt Lake City; Glenn B. Gaer, Denver; Wm. Benndorf, Phoenix; W. W. Wheat & Son, Seattle. (See Adv., page 45.)

SPRAGUE ELECTRIC CO., North Adams, Mass.—Burgess Dempster, Los Angeles; Wm. J. Purdy, San Francisco; George Norris, Seattle.

SQUARE D COMPANY, Milwaukee, Wis., Detroit, Mich., Los Angeles, Calif.—Factory Branch: Seattle and San Francisco; Sales Branch: Portland, Spokane, Fresno, Sacramento, San Diego and Denver. Agents: Sun Valley Elec. Mfg. Co., Phoenix; Stevens Sales Co., Salt Lake City; A. E. Linzer, Honolulu.

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STANDARD ELECTRIC TIME CO., Springfield, Mass.—Branch offices, San Francisco, Los Angeles; Harold M. Hudson Co., Seattle.

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STANLEY & PATTERSON, New York, N. Y.—Chas. A. Meier Co., San Francisco.

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STATES CO., THE, Hartford, Conn.—G. I. Hoffman, Portland; Geo. E. Honn Co., San Francisco; Edward S. Sievers, Los Angeles; Mountain States Machy. Co., Denver; Conely Eng'g. Co., Salt Lake City; J. E. Redmond Co., Phoenix; Frank W. Gorman, El Paso.

STA-TITE MFG. CO., Kansas City, Mo.—James C. Pope, Jr., Los Angeles; W. W. Wheat, Seattle.

STEAM-O-MATIC CORP., Milwaukee, Wis.—See Rival.

STEBER MANUFACTURING CO., Chicago, Ill.—Garnett Young & Co., Seattle, San Francisco, Los Angeles; Allen B. Carpenter, Denver; Jack Morgan, Dallas, Tex.

STEEL CITY ELECTRIC CO., Pittsburgh, Pa.—Hodges & Glomb, San Francisco; Garnett-Young, San Francisco (Hawaii Representative); Murphy-Hain Co., Los Angeles; Northwestern Agencies, Seattle; Fred E. Staible & Sons, Denver; George E. Anderson Co., Dallas; Elec'l Eng. & Sales, El Paso. (See Adv., page 53.)

STEEL CO., HERMAN D., Philadelphia, Pa.—Geo. L. Hoffman, Portland; Geo. E. Honn Co., San Francisco; J. G. Corrin Co., Los Angeles; Len Powell, Dallas; Frank Gorman, El Paso.

STEELDUCT CO., THE, Youngstown, Ohio—Tri-State Supply Corp., Los Angeles, San Francisco, Seattle.

STEEM ELECTRIC CO., St. Louis, Mo.—Lee Abelson Agency, Los Angeles.

STERLING ELECTRIC MOTORS, INC., Los Angeles, Calif.—Geo. A. Hindley, San Francisco; O. M. MacNaMa, Seattle; Ernest Agutter, Salt Lake City; James A. Mortensen, Phoenix.

STERLING PRODUCTS CO., Los Angeles, Calif.

STERLING REFLECTOR CO., Chicago, Ill.—Thru leading electrical distributors.

STERLING TOOL PRODUCTS CO., Chicago, Ill.—I. C. Bouchard, Los Angeles; J. H. Weatherly, and H. F. Braddock, Denver, Colo.

STERLING VARNISH CO., Hayswille, Pa.—Western Fiberglas Supply, Ltd., San Francisco.

STERN-BROWN, INC., Long Island City, N. Y.—Wm. P. Horn Co., San Francisco and Portland; Meyer J. Hackman, Los Angeles.

STEVENS and CO., C. H., South Norwalk, Conn.—Pac. Coast Div., Banning, Calif., Sale office, Alhambra, Calif.

STEVENS MFG. CO., INC., Mansfield, Ohio—Western Factors, Seattle; Airsupply Co., Los Angeles.

STEWART-WARNER CORP., Chicago, Ill.—Frank Helderle, Factory Field Representative, San Francisco; Kinney Brothers, Los Angeles; Edward F. Hale Co., San Francisco; Arizona Merc. Co., Phoenix; Graybar Electric Co., Inc., Seattle and Portland; Wilkins Dist. Co., Salt Lake City.

STICHT CO., INC., Herman H., New York City—T. R. Routh Co., Los Angeles; Electronic Specialty, Portland; L. W. Thompson, Los Angeles.

STONE MFG. CO., Elizabeth, N. J.—Robert R. Prussia, San Francisco; The McLoughlin Co., Los Angeles; Bruce-Emmett Co., Portland, Seattle and Salt Lake City; L. S. Reed Co., Denver.

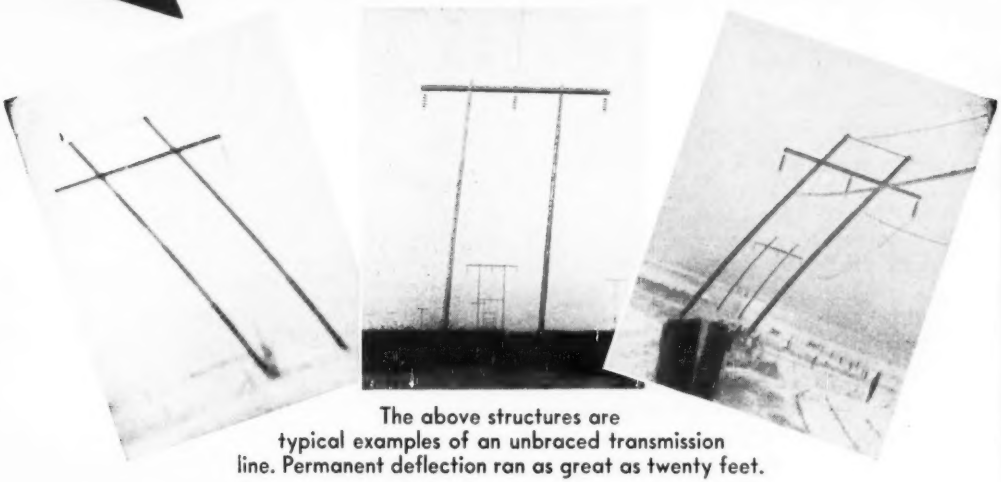
STONE-RYALS ELEC. MFG. CO., San Francisco, Calif.—Victor quipment Co., Los Angeles; Portland Machinery Co., Portland; West Coast Machinery Co., Seattle.

STROMBERG TIME CORP., N. Y. City—R. E. Peters, San Francisco; H. H. Swisher, Los Angeles; Eicher & Co., Seattle; Krippner & Polley, Denver.

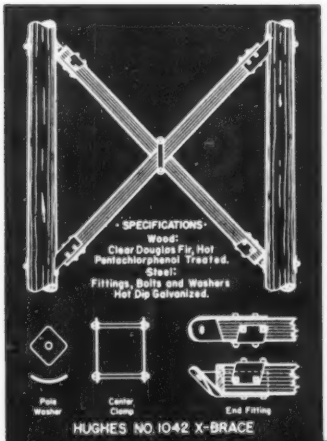
STRUTHERS DUNN, INC., Philadelphia, Pa.—C. E. Ingalls, San Francisco; Edward S. Sievers, Los Angeles; Alex Hibbard Co., Denver; J. Y. Schoonmaker, Dallas; Eicher & Co., Seattle.

STURTEVANT CO., THE B. F., Berkeley, Calif.—Branch Offices: Seattle, Portland, San Francisco, Los Angeles; A. A. Maycock Co., Salt Lake City.

# THIS! is what prompted the pioneering of HUGHES WOOD X-BRACES



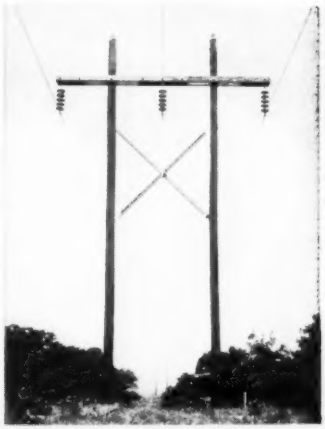
The above structures are typical examples of an unbraced transmission line. Permanent deflection ran as great as twenty feet.




The unbraced structures above and their excessive top deflections and ground line movements prompted the development of the Hughes X-Braces.

They have proved their worth not only in preventing the above conditions, but also in permitting longer, more economical spans.

For your particular bracing problem we invite your consultation with our Engineering Department.



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**SEWARD, NEBRASKA**
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SUNBEAM LIGHTING CO., Los Angeles, Calif. — L. M. Baxter, Seattle, Portland and San Francisco.

SUN-KRAFT, INC., Chicago, Ill.—Howard Reinheimer, Berkeley.

SUNROC REFRIGERATION CO., Glen Riddle, Penna. Branch offices in Los Angeles, San Francisco; Vaughan Electric, Los Angeles; Pellman Supply, San Francisco, Sacramento; Consolidated Supply, Portland and Seattle.

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- Potential
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**SUPERIOR INSULATING TAPE CO., St. Louis, Mo. — Keeler, White Co., Los Angeles, San Francisco, Portland and Seattle; E. T. Vonler, Denver; Galvin Sales Co., Dallas, Tex.**

**SUPERIOR MFG. CO., Fitchburg, Mass. — R. C. James, Seattle; George H. Curtiss, San Francisco; A. G. Ehrgott, Los Angeles.**

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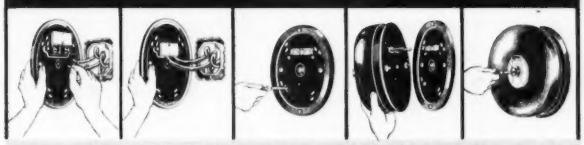

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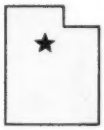

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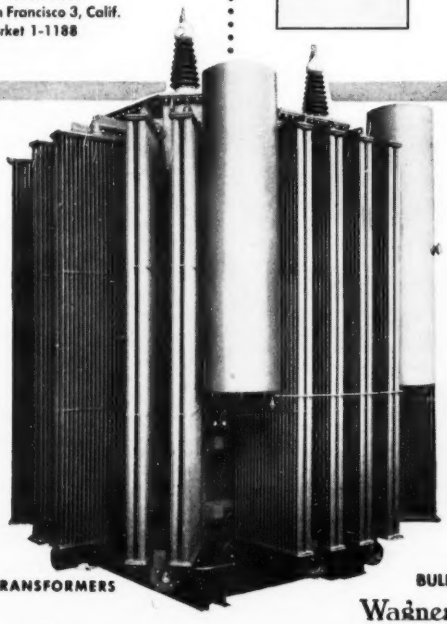

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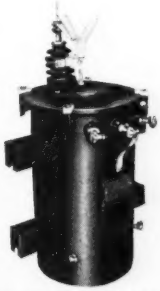

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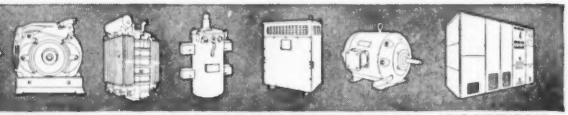

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**WELLS MANUFACTURING CO., San Francisco, Calif.—J. D. Sparks, Seattle.**

**WESIX ELEC. HEATER CO., San Francisco, Calif.—Branch Offices:** Seattle, Portland, Los Angeles and Fresno.

**WESTCLOX DIV., GENERAL TIME INSTR. CORP., La Salle, Ill.—Schoss Mfg. Co., San Francisco.**

**WEST WIND CORP., Seattle** Wash. Sold thru leading electrical wholesalers.

**WESTERN ELECTRO-MECHANICAL CO., INC., Oakland, Calif.—Geo. L. Hoffman, Portland; R. E. Cunningham & Son, Los Angeles.**

**WESTERN ENGINE CORP., Los Angeles, Calif.**

WESTERN INSULATED WIRE, INC., Los Angeles, Calif. — The Sales Co., Albuquerque, N. Mex.; M. F. Kliepera, Houston, Tex.; J. C. Bird, Seattle; R. Delehanty, San Francisco.

**WESTERN PIPE & STEEL CO. OF CALIF., San Francisco, Calif.**

**WESTERN TRANSFORMER CO.**, Oakland, Calif. **(See Adv., page 48.)**

WESTINGHOUSE ELEC. CORP., Pittsburgh, Pa.—Chas. A. Dostal, Vice-Pres., San Francisco. Branch Offices: Seattle, Portland, Los Angeles, San Diego, Sacramento, Salt Lake City, Phoenix, Spokane, Butte.

WESTINGHOUSE ELEC. CORP., Hyde Park 36, Mass.—Sturtevant Div., A. J. Bover, San Francisco; F. W. Jordan, Dist. Mgr., San Francisco; W. S. Brouse, Los Angeles; B. W. Foster, Seattle. Agents, Brod & McClurg, Portland.

WESTINGHOUSE ELEC. CORP., Mansfield, Ohio—Electrical Appliance Div.—J. J. Moffatt, Pacific Coast Mgr., H. E. Hugo, Sales Prom. Mgr., San Francisco; Branch offices in principal cities. Through leading distributors.

WESTINGHOUSE ELEC. CORP., X-Ray Division, Baltimore, Md.—Branch Offices, San Francisco, Los Angeles, San Diego, Sacramento, Seattle, Portland, Spokane, Salt Lake City, Butte, Phoenix.

WESTINGHOUSE ELEC. CORP., Lighting Div., Cleveland, Ohio—Chas. A. Dostal, Pacific Coast Dist. Mgr., San Francisco. Branch Offices: Seattle, Portland, Los Angeles, Salt Lake City.

WESTINGHOUSE ELEC. CORP., Elevator Div., Jersey City, N. J.—R. H. Wagner, Pacific Coast Dist. Mgr., San Francisco; G. R. Baker, Branch Mgr., Los Angeles.

WESTINGHOUSE ELEC. CORP., Lamp Div., Bloomfield, N. J.—W. H. Thompson, Pacific Coast Mgr., San Francisco. Branch Offices: Seattle, Los Angeles. Representatives: M. D. Hiltibrand, Portland; E. E. Jonsson, Salt Lake City; J. H. Kennedy, Emeryville, Calif.

WESTON ELEC'L. INSTRUMENT CORP., Newark, N. J. — H. L. Eicher, Seattle; Herman E. Held, **San Francisco; E. S. Sievers, Los Angeles; Peterson Co., Denver.**

WHEELER INSULATED WIRE CO., INC., Bridgeport, Conn.—Agencies Co., Los Angeles, San Francisco and Seattle.

WHEELER REFLECTOR CO., Boston, **Mass.—A. C. Wright, Preferred Equipment Engineers, Seattle; E. B. Cook Co., San Francisco; J. G. Pomeroy Co., Los Angeles; Paul A. Douden Co., Denver.**

WHITE CO., THE O. C., Worcester, Mass.—Bruce-Emmett Co., Portland.

WHITE-RODGERS ELEC. CO., St. Louis, Mo.—Tom Davenport, San Francisco; Mason Imanuel, Los Angeles; Wm. M. Snider, Denver; Jack Hamilton, Seattle.

WHITE PRODUCTS CORP., Middleville, Mich.—L. A. Robinson Co., Seattle.

WHITE RUBBER CO., Ravenna, Ohio.—J. G. Corrin, Los Angeles; J. E. Redmond Co., Phoenix

**WIEGAND CO., EDWIN L., Pittsburgh, Pa.—Montgomery Brothers, Seattle, Portland, San Francisco,** Los Angeles; The Peterson Co., Denver.

**WILCOLATOR CO., Newark, N. J.—A. P. Bartley, San Francisco; H. J. Lovett, Los Angeles.**

WILCOX-GAY CORP., Charlotte, Mich.—Radio Specialties Inc., Los Angeles; E. C. Wenger Co., Oakland; F. B. Connelly Co., Portland and Seattle.

WILEY, INC., R. & W., Buffalo N. Y. Harry N. Lindsey, Los Angeles; William Benndorf, Phoenix; Fred R. Army, Dallas.

WILLIAMS—Oil-O-Matic Div. See Eureka Williams)

**WILMINGTON FIBRE SPECIALTY CO., Wilmington, Del.—Dist. Offices: Glenn H. Taylor, Los Angeles; Gillette & McLaren, Inc., Seattle; L. B. Youngs Co., Denver; C. H. Jones Equipment Co., Salt Lake City; Lilly & Crowley, Inc., San Francisco.**

**WILSON LIGHTING, INC., Chicago, Ill.—Leading Wholesalers.**

WIL-SON MFG. CORP., Chicago, Ill.—Harry F. Haldeman, Inc., Los Angeles.

**WING MFG. CO., L. J., New York, N. Y.—Halloran & Pardee, San Francisco; Andrew G. Orear, Los Angeles.**

WINSTED HARDWARE MFG. CO., Winsted, Conn. Les Taufenbach, Los Angeles and San Francisco; Tony Kaye, Phoenix; John Hannum, Seattle; R. C. Reike, Portland; Ben Clark, Salt Lake City; S. R. Black, San Diego.

**WIREMOLD COMPANY, THE, Hartford, Conn.—F. A. Stroheckar, Seattle; Geo. A. Gray, San Francisco; F. J. Alrey Co., Los Angeles.**

**WIRT COMPANY, Philadelphia,** Pa.—Jas. C. Pope, Jr., Los Angeles.

WITTIE MFG. & SALES CO., Chicago, Ill.—M. L. "Bud" Cohn, Los Angeles.

**WOLFF ELECTRIC COMPANY, Portland, Ore.**

**WOLVERINE TUBE DIV. of Calumet & Hecla Cons. Copper Co., Detroit, Mich.—H. F. Soderling, Seattle; Frank H. Biran Co., Los Angeles, San Francisco.**

WOOD ELECTRIC CO., INC., C. D., Glendale, Long Island, N. Y. Mac Morgan, Los Angeles.

**WOOD MFG. CO., JOHN, Conshohocken, Pa. — Montgomery Bros., Seattle, Portland, San Francisco, Los Angeles.**

WOODHEAD CO., DANIEL, Chicago, Ill.—L. S. Foley, Portland; Walter E. Brand, Los Angeles; Ernest F. Hauck, San Francisco; K. B. Schumann, Denver.

**WORTHINGTON PUMP & MACHINERY CORP., Harrison, N. J.—Branch Offices: Seattle, Portland, San Francisco, Los Angeles, Denver, El Paso.**

WRIGHT & SONS CO., WM. E., West Warren, Mass. — A. B. Smedley, Pasadena, Calif.

WROUGHT WASHER MFG. CO., Milwaukee, Wis.—F. G. Wigmore, San Francisco; J. A. Wilson, Los Angeles; H. G. Barklage, Seattle; J. L. Barlow, Salt Lake City.

WUELKER INFRA-RED AND LIGHTING CO.—San Francisco. **(See Adv., page 48.)**

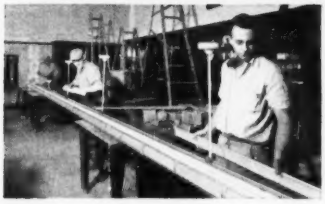
YEATS APPLIANCE DOLLY MFG. CO., Fullerton, Calif. — Tatum Moving Van Supplies, Los Angeles.

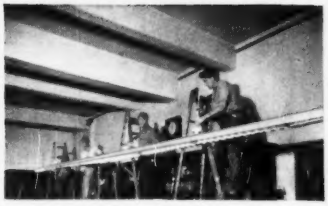
**YOUNG BROTHERS CO., Detroit,** Mich. — B. F. Easterbrook Co., **Seattle; E. A. Wilcox Co., San** Francisco, Los Angeles; M. K. Griggs, Houston, Tex.

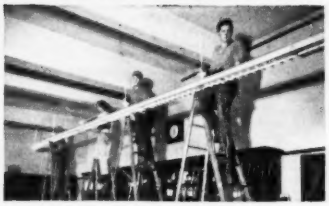
**YOUNGSTOWN SHEET & TUBE CO., THE, Youngstown, O.—Allied Industries, Inc., Seattle, Portland, San Francisco, Los Angeles.**

**ZENITH ELECTRIC CO., Chicago,** Ill.—James Mundstock, San Francisco.

ZOPHAR MILLS, INC., Brooklyn, N. Y. Electrical Specialty Co., San Francisco, Los Angeles, Seattle, Portland and Denver.

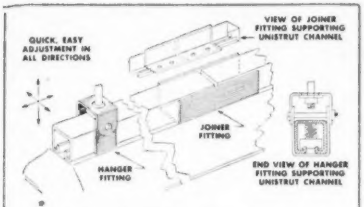






*Photographs illustrate the ease and speed with which fixtures are assembled to Unistrut at normal working height, then raised as one unit for suspension. Three minutes after picture at extreme right was taken, installation had been completed.*

*Installed by Wadeford Electric Co., Chicago, at Oak Park Township High School, Oak Park. Consulting Engineers—Neiler, Rich & Bladen, Chicago. Fixtures by Curtis Lighting Inc., and F. W. Wakefield Brass Co.*




*New Unistrut Hanger Fitting and Joiner Fitting for quick, easy fixture hanging. Eliminates drilling—allows extreme freedom of adjustment in all directions. A single bolt securely locks clamp to Unistrut.*

Send for Pamphlet No. 3
**"Unistrut Method of Supporting Fluorescent Lighting Fixtures"**

UNISTRUT PRODUCTS COMPANY
1013 W. WASHINGTON BOULEVARD
CHICAGO 7, ILLINOIS

Name _____

Firm Name _____

Street _____

City _____ State _____

**4 reasons why "UNISTRUT" ALL-PURPOSE METAL FRAMING makes fixture hanging easier and results in a better installation**

**1 FEWER HANGER RODS**

Hanger rods may be spaced as far as 15 feet apart, resulting in lower costs and a better appearing installation.

**2 PERFECT ALIGNMENT**

Unistrut is perfectly rigid and straight—results in true alignment of fixtures. Standard lengths 10 and 20 ft.

**3 FASTER, EASIER INSTALLATION**

Entire run of fixtures can be quickly assembled to Unistrut *before* raising completed unit to ceiling for suspension.

**4 COMPLETELY FLEXIBLE**

Hangers may be installed at *any* point along Unistrut continuous slot channel. Allows greater adjustment—easier alignment and leveling of fixtures.

***Unistrut has hundreds of other uses—completely adjustable and 100% re-usable!***

ALL PURPOSE UNISTRUT METAL FRAMING

Representatives in all Principal Cities

**UNISTRUT PRODUCTS COMPANY**
1013 W. WASHINGTON BLVD., CHICAGO 7, ILL.

# WHERE-TO-BUY IN THE WEST

Alphabetical listing of various electrical products, showing manufacturers and Western sources. PAGES 50 TO 67.

DIRECTORY OF MANUFACTURERS—Alphabetical listing of manufacturers of electrical equipment, showing their principal Western offices and sales representatives. PAGES 2 TO 49.

DIRECTORY OF APPLIANCE SERVICE AND REPAIR PARTS—A listing of electrical appliance manufacturers' Western service stations and parts depots. PAGES 68 TO 81.

DIRECTORY OF WESTERN REPRESENTATIVES—A listing by states and cities of manufacturers' representatives handling electrical lines. PAGES 82 TO 88.

**Adhesives, Glues and Cements**
L. B. Allen Co.
General Elec. Supply Corp.
P. D. George Co.
Graybar Electric Co., Inc.
U. S. Rubber Co.
Van Cleef Bros.
Westinghouse Elec. Corp.

**Air Conditioning**
Air Cooling Eng. Co.
Campbell & George
Denham Sales
General Elec. Co.
General Elec. Supply Corp.
Frank W. Gorman
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Mitchell Mfg. Co.
Montgomery Bros.
Westinghouse Elec. Corp.

**Air Filters**
Air Cooling Eng. Co.
Campbell & George
Signal Elec. Mfg. Co.

**Alloys**
Driver-Harris

**Ammeters, Ohmmeters, Voltmeters, Wattmeters**
Associated Research, Inc.
C. C. Blecksmith
Burlington Instrument Co.
Carlson, Fred W.
Cole Instrument Co.
Duncan Elec. Mfg Co.
General Elec. Co.
General Elec. Supply Corp.
Graybar Elec. Co., Inc.
Geo. E. Honn Co.
James R. Kearney Corp.
L. A. Nott
T. R. Routh Co.
Sangamo Elec. Co.
A. B. Smedley
H. B. Squires Co.
L. W. Thompson
Westinghouse Elec. Corp.
Weston Elec. Instr. Corp.

**Anchor and Guy Rods**
A. B. Chance Co.
Copperweld Steel Co.
Everstick Anchor Co.
General Elec. Co.
General Elec. Supply Corp.
Frank W. Gorman
Gough Industries, Inc.
Graybar Elec. Co., Inc.
George E. Honn Co.
Hubbard & Co.
Joslyn Pacific Co.
James R. Kearney Corp.
Kortick Mfg. Co.
Line Material Co.
Locke Inc.
Maydwell & Hartzell, Inc.
Oliver Iron and Steel Corp.
Pieper-Lillard Co.
Ryals Electric Co.
Wagner Malleable Prod. Co.

**Anchors**
A. B. Chance Co.
Everstick Anchor Co.
General Elec. Supply Corp.
Frank W. Gorman
Gough Industries, Inc.
Geo. E. Honn Co.
Hubbard & Co.
Joslyn Pacific Co.
James R. Kearney Corp.
Kortick Mfg. Co.
Line Material Co.
Lint Co., Clyde W.
Locke Inc.
W. N. Matthews Corp.
Maydwell & Hartzell, Inc.
Oliver Iron and Steel Corp.
Pieper-Lillard, Inc.
Ryals Electric Co.
Wagner Malleable Prod. Co.

**Annunciators**
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Sperti-Faraday
H. H. Van Luven Co.

**Appliances, Commercial**
General Elec. Co.
General Elec. Supply Corp.
Graybar Elec. Co.
Landers, Frary & Clark
Swiveller Co.
Wesix Electric Heater Co.
Westinghouse Elec Corp.

**Appliances, Household**
Bendix Home Appliances, Inc.
Ceazan Co., J. N.
George H. Curtiss
General Elec. Co.
General Elec. Supply Corp.
General Mills, Inc.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Hotpoint, Inc.
Landers, Frary & Clark
Malleable Iron Range Co.
Nat'l Enameling & Stamping Co.
Reliance Sales Co.
Russell & Co.
Samson United Corp.
Swartzbaugh Mfg. Co.
Thermador Elec. Mfg. Co.
Wange Mfg. Co.
Wesix Electric Heater Co.
Westinghouse Elec. Corp.

**Arresters, Power Line Lightning**
Ken H. Best
General Electric Co.
General Elec. Supply Corp.
Geo. E. Honn Co.
Hubbard & Co.
Joslyn Pacific Co.
James R. Kearney Corp.
Line Material Co.
Maydwell & Hartzell, Inc.
Pacific Electro Sales
Reliable Electric Co.
S & C Electric Co.
So. States Equipment Co.
Westinghouse Elec. Corp.
Tom Wood

**Ballasts, Fluorescent Lamp**
Agencies Co.
Certified Ballasts Mfgrs.
Chicago Transformer Co.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries
Graybar Elec. Co., Inc.
Industrial Electronics
A. B. Smedley
Sylvania Elec. Prod., Inc.
Thermador Elec. Mfg. Co.
Westinghouse Elec. Corp.
Wuelker Infra-Red & Lighting Co.

**Bands, Cable and Pole Stubbing**
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Hubbard & Co.
James R. Kearney Corp.
Joslyn Pacific Co.
Kortick Mfg. Co.
Line Material Co.
Maydwell & Hartzell, Inc.
Oliver Iron & Steel Corp.

**Batteries and Equipment**
Allen-Bradley
Bright Star Battery Co.
California Elec. Works
Campbell & George Co.
Ceazan Co., J. N.
H. D. Easterbrook
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Ideal Industries, Inc.
Kato Engineering Co.
P. D. Mallory
Pacific Electro Sales

**Bells and Buzzers**
Agencies Co.
K. M. Anderson Co., Inc.
Benjamin Elec. Mfg. Co.
Brainard, W. V.
Control Corp.
Crouse-Hirds Co.
Electric Agencies, Inc.
Electric Sales Co.
Federal Enterprises, Inc.
General Elec. Supply Corp.
Gough Industries, Inc.
Geo. A. Gray Co.
Graybar Elec. Co., Inc.
"Hock" Ensmith Sales
F. M. Nicholas Co.
Northwestern Agencies
Sperti-Farraday
H. H. Van Luven Co.


## GEO. A. GRAY COMPANY

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COLUMBIA METAL BOX CO.—Steel cutout cabinets

EDWARDS COMPANY, INC.—Electric signaling devices, chimes, program clocks, fire alarms, hospital signals, telephones

HENDERSON ELECTRIC COMPANY—Conduit bending tools

McGILL MANUFACTURING COMPANY—Leveller switches, lamp guards, portables, lamp changers

PASS & SEYMOUR, INC.—P & S wiring devices, ALABAX fixtures

THE WIREMOLD COMPANY—WIREMOLD raceways, lighting strips, loom, fluorescent fixtures, PLUGMOLD

HENRY G. THOMPSON & SON—Milford hacksaw blades

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Soder . . . for all metals. Flux . . . for all metals—all forms—liquid, paste, salts, oil. All special government specifications Fluxes, etc. Send for Check Charts which give melting points of all soders.

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DENVER
James H. Blinn Co.
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SALT LAKE CITY
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1661 E. 48th South St.

L. B. ALLEN CO. INC. 6710 Bryn Mawr Ave. Chicago 31, Illinois

# MOLONEY ELECTRIC COMPANY

GENERAL OFFICES: ST. LOUIS 20, MO., FACTORIES AT ST. LOUIS, MO., AND TORONTO, ONT., CANADA

## Sales Offices

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|---|---|
| Alexandria, Va. | 401 Doniphan Bldg. |
| Allentown, Pa. | 831 Linden St. |
| Amarillo, Tex. | P. O. Box 390 |
| Atlanta, Ga. | 217 Whitehall St., S.W. |
| Birmingham, Ala. | 1814 First Ave., North |
| Bluefield, W. Va. | P. O. Box 33 |
| Boston 16, Mass. | Statler Office Bldg. |
| Buffalo 3, N. Y. | 564 Ellicott Square Bldg. |
| Butte, Montana | 604 Utah Ave. |
| Charleston, S. C. | 336 East Bay Street |
| Charlotte, N. C. | 124 Brevard Court |
| Chicago 3, Ill. | 100 West Monroe St. |
| Cleveland 15, Ohio | Room 607 Hanna Bldg. |
| Corpus Christi, Texas | 1329 Staples St. |
| Dallas 1, Texas | 512 Thomas Bldg. |
| Denver 2, Colo. | 612 Insurance Bldg. |
| Detroit 2, Mich. | 744 New Center Bldg. |
| Detroit 2, Mich. | 6-253 General Motors Bldg. |
| Grand Rapids 2, Mich. | 412 Houseman Bldg. |
| Houston 1, Texas | 4411 Navigation Blvd. |
| Indianapolis 4, Ind. | 807 Roosevelt Bldg. |
| Jacksonville, Fla. | 3323 Timuquana St. |
| Kansas City 6, Mo. | 522 Dwight Bldg. |
| Knoxville 17, Tenn. | 1243 N. Broadway |
| Los Angeles 13, Calif. | Subway Terminal Bldg. |
| Memphis, Tenn. | 1352 Madison Ave. |
| Minneapolis 1, Minn. | 354 Midland Bank Bldg. |
| New Orleans 12, La. | 407-408 Industries Bldg. |
| New York 5, N. Y. | 55 Liberty St. |
| Omaha 2, Nebr. | 1104-5 WOW Bldg. |
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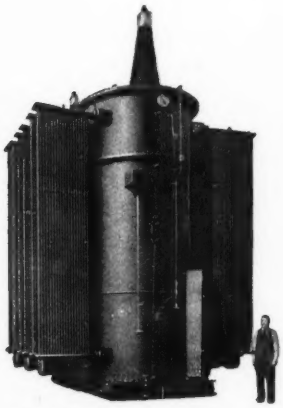
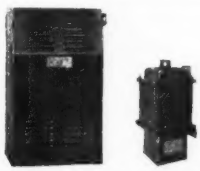
| Phoenix, Arizona | 140 So. Central Ave. |
| Portland, Ore. | 1233 N.W. Twelfth Ave. |
| Princeton, Ind. | P. O. Box 287 |
| St. Petersburg 6, Fla. | 14212 Palm St., Madeira Beach |
| Salt Lake City, Utah | 314 Kearns Bldg. |
| San Francisco 4, Calif. | 407 Holbrook Bldg. |
| Seattle 4, Wash. | 532 First Ave., South |
| Shreveport, La. | 630 Spring Ave. |
| Silver Springs, Md. | 9415 Wire Ave. |
| Syracuse, N. Y. | Room 317, State Tower Bldg. |
| Wheeling, W. Va. | 22nd & Market Streets |

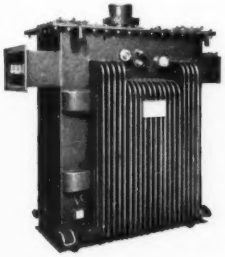


Moloney Power Transformer. Transformer pictured above is rated 25,000 Kva. 161,000Y to 13,200 volts. These transformers can be supplied in any capacity or voltage desired.

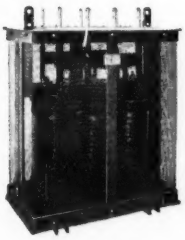


Moloney General Purpose Air-Cooled Transformers with Class A insulation. For industrial use to serve lighting and small power loads. Left illustration typical of sizes 15 to 50 Kva. Right illustration typical of sizes 1 Kva to 10 Kva. Voltages 600, 480 or 240 to 120/240 volts.

Moloney Conventional Distribution Transformer, oil-cooled, for outdoor pole or platform mounting. Sizes 3 Kva to 500 Kva. Voltages up to 66,000 volts. Illustration typical of sizes 75 and 100 Kva. 7200 to 120/240 volts. Sizes 100 Kva and smaller, 15 Kv and below are of HiperCore design with cores of high permeability steel.



Moloney Askarel (non-inflammable liquid cooled) Transformer. For indoor installation at load centers without the use of fire-proof vaults. Available in all Kva and voltage ratings.



Moloney Air-Cooled Transformer with Class B insulation. For indoor installation at load centers without the use of fire-proof vaults. Available in voltages up to 13,800 volts and in capacities of 150 Kva and larger.

Moloney HiperCore Completely Self-Protected Transformer, oil-cooled, equipped with built-in lightning and secondary overload protection. Sizes 3 to 50 Kva. Voltages 2400 to 14,400 volts. Illustration typical of sizes 3 to 25 Kva. 7200 to 120/240 volts.

## MOLONEY PRODUCTS

POWER TRANSFORMERS
•
UNIT SUBSTATIONS
•
TAP CHANGING UNDER LOAD TRANSFORMERS
•
STEP VOLTAGE REGULATORS
•
REGULATING TRANSFORMERS
•
HIPERCORE DISTRIBUTION TRANSFORMERS (Conventional and CSP Types)
•
LOAD CENTER TRANSFORMERS
•
ASKAREL (Non-inflammable Liquid) COOLED TRANSFORMERS
•
AIR-COOLED (Class A and Class B Insulated) TRANSFORMERS
•
CONSTANT CURRENT STREET LIGHTING TRANSFORMERS
•
SUBMERSIBLE TYPE TRANSFORMERS
•
NETWORK TRANSFORMERS
•
CAPACITORS
• • •

Write for
**CATALOG EW-192**

Moloney Askarel Capacitors are non-inflammable liquid filled. They are available in 15 and 25 Kvar sizes and in voltae ratings of 2400, 4800 and 7200 volts.

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Buckingham Mfg. Co., Inc.
Graybar Elec. Co., Inc.
Klein & Sons, Mathias
Western Hardware & Tool Co.

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Electric Sales Co.
Fullman Mfg. Co.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Geo. A. Gray Co.
Graybar Elec. Co.
Greenlee Tool Co.
Line Material Co.
H. P. Martin & Sons
Murphy-Hain Co.
F. M. Nicholas Co.
J. G. Pomeroy Co.
Westinghouse Elec. Corp.

**Blowers, Compressors**
Allis-Chalmers Mfg. Co.
Anderson Co., Kenneth
Bran Co., Frank H.
George H. Curtiss
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Ideal Industries, Inc.
Montgomery Bros.
Motorcraft
F. M. Nicholas Co.
Strieby & Barton, Ltd.
Trade-Wind Motorfans, Inc.

**Bolts, Nuts**
Carlson, Fred W.
General Electric Co.
Gen. Elec. Supply Corp.
Gough Industries, Inc.
Hubbard & Co.
Joslyn Pacific Co.
Kortick Mfg. Co.
Kwikon Co.
Line Material Co
Oliver Iron & Steel Corp.
Westinghouse Elec. Corp.

**Boxes, All Kinds**
All Steel Equipment Co.
Appleton Elec. Co.
The M. B. Austin Co.
Best, Ken H.
The Frank H. Bran Co.
Brainard, W. V.
Buchanan Elec. Products, Inc.
Chapman Co., J. M.
Delta Star Elec. Co.
Fullman Mfg. Co.
G. & W. Elec. Specialty Co.
General Cable Corp.
General Elec. Supply Corp.
General Elec. Co.
General Eng. & Design Co.
Gough Industries, Inc.
George A. Gray Co.
Graybar Elec. Co., Inc.
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Capacitors for Power Factor Correction ..... Cornell-Dubilier Elec. Corp.
Underground Tools and Equipment ..... T. J. Cope, Inc.
Cable Grips for Pulling and Support ..... Kellems Company
Statiscopes, Compound, Clips and Hangers ..... Minerallac Electric Co.
Power and Distribution Transformers ..... Pennsylvania Transformer Co.
Fuses, Protective Devices and Interrupter Switches ..... S&C Electric Co.
Cone Anchors, Guy Guards, Earth Augers ..... Specialty Device Co.
Meter Jewels ..... Herman D. Steel Co.
Test Blocks, Meter Testing Equipment ..... The States Co.
Porcelain Insulators ..... R. Thomas & Sons Co.
Tree Trimming Equipment, Tree Surgeons Tools ..... Bartlett Mfg. Co.

**A. B. SMEDLEY**
**TECHNICAL PRODUCTS**
Electrical equipment and lighting for the Wholesalers, Industrials and Utilities.
192 E. Glenarm Phone PYramid 1-2178 Pasadena 2, Calif.

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General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
**Graybar Elec. Co.**
**Geo. E. Honn Co.**
Hubbard & Co.
Hughes Bros.
Joslyn Pacific Co.
**Line Material Co.**
Locke, Inc.
**Maydwell & Hartzell, Inc.**
**Waltham, DeWitt & Krusi**
Westinghouse Elec. Supply

**Cutouts**
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**G & W Electric Specialty Co.**
**General Elec. Co.**
**Frank W. Gorman**
Gough Industries, Inc.
Graybar Elec. Co., Inc.
**Geo. E. Honn Co.**
Hubbard & Co.
**James R. Kearney Corp.**
**Kwikon Co.**
Line Material Co.
**W. N. Matthews Corp.**
Maydwell & Hartzell, Inc.
Northwestern Agencies
Pacific Electro Sales Co.
**Pacific Elec. Mfg. Corp.**
Porcelain Products, Inc.
S. & C. Electric Co.
Southern States Equipment Co.
**Square D Co.**
Wadsworth Electrical Mfg. Co.
**Waltham, DeWitt & Krusi**
**Westinghouse Elec. Corp.**

**Derricks—Dinkies**
Four Wheel Drive Auto Co.
**Highway Trailer Co.**

**Distribution Specialties**
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Best, Ken H.
**Burndy Eng. Co.**
**General Elec. Co.**
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Geo. E. Honn Co.
**Hubbard & Co.**
Joslyn Pacific Co.
**James R. Kearney Corp.**
**F. D. Kees Mfg. Co.**
**Kortick Mfg. Co.**
**Line Material Co.**
Locke, Inc.
**W. N. Matthews Corp.**
**Maydwell & Hartzell, Inc.**
**Mullenbach Elec'l Mfg. Co.**
Ohio Brass Co.
Oliver Iron & Steel Co.
Pacific Electro Sales Co.
**Reliable Elec. Co.**
**Safety Switchboard Co.**
S. & C. Electric Co.
H. B. Sherman Mfg. Co.
**The R. Thomas & Sons Co.**
Trumbull Elec. Mfg. Co.
**Waltham, De Witt & Krusi**

**Duct**
Allis-Chalmers
BullDog Elec. Products Co.
Federal Elec. Prod. Co.
**General Elec. Co.**
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Johns-Manville Corp.
Line Material Co.
Maydwell & Hartzell, Inc.
**Mullenbach Elec'l. Mfg. Co.**
National Elec. Prod. Corp.
Orangeburg Mfg. Co., Inc.
Ryals Electric Co.
Safety Switchboard Co.
Square D Co.
Trumbull Elec. Mfg. Co.
Westinghouse Elec. Corp.

**Electronic Devices**
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Edwin F. Guth Co.
Industrial Electronics Corp.
Peterson, F. Somers
A. B. Smedley
Sylvania Electrical Products Co.
Square D Co.
H. B. Squires
Webster Elec. Co.
Westinghouse Elec. Corp.

**Electroplaters (See Platers)**

**Enclosures, Meter and Instrument**
Agencies Co.
Anchor Mfg Co.
**Crouse Hinds Co.**
General Elec. Supply Corp.
Geo. A. Gray
Graybar Elec. Co., Inc.
**F. D. Kees Mfg. Co.**
Lyman, Oliver B.
Meter Devices Co.
Murray Mfg. Co.
**L. A. Nott**
Square D Co.
Westinghouse Elec. Corp.

**Fans**
Anderson Co., Kenneth
Ceazan Co., J. N.
Chapman Co., J. M.
**George H. Curtiss**
Denham Sales
Electromode Corp.
**General Elec. Co.**
General Elec. Supply Corp.
**Gough Industries, Inc.**
Graybar Elec. Co., Inc.
**Edwin F. Guth Co.**
**Harry F. Haldeman, Inc.**
Landers, Frary & Clark
**Maydwell & Hartzell, Inc.**
**Montgomery Bros.**
Motorcraft
F. M. Nicholas Co.
**Panama Lamp & Com. Co.**
Pryne & Co.
Robbins & Meyers
Russell & Co.
Samson United Corp.
Shepler Mfg. Co.
Signal Elec. Mfg. Co.
A. B. Smedley
Trade-Wind Motorfans, Inc.
**Wagner Elec. Corp.**
Westinghouse Elec. Corp.

**Fans, Kitchen Ventilating**
**Geo. H. Curtiss**
**General Electric Co.**
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Nicholas Co., F. M.
Russell & Co.
Signal Electric Mfg. Co.
Trade-Wind Motorfans, Inc.
**Wagner Elec. Corp.**
Westinghouse Elec. Corp.

**Farm Electrification Equipment**
M. B. Austin Co.
E. B. Cook
O. W. Coombs
Crouse Hinds Co.
**General Elec. Co.**
General Elec. Supply Corp.
Graybar Elec. Co., Inc.
The Jones Metal Prod. Co.
Joslyn Pacific Co.
Kortick Mfg. Co.
Line Material Co.
**J. G. Pomeroy Co.**
Westinghouse Elec. Corp.

**Filters**
Cornell-Dubilier Corp.
General Elec. Co.
General Elec. Supply Corp.
Graybar Electrical Co., Inc.
Montgomery Bros.
Owens-Corning Fiberglas Corp.
Tri-State Supply Corp.
Westinghouse Elec. Corp.

**Fireplace Equipment**
Gough Industries, Inc.
Shepler Mfg. Co.
Strait & Richards, Inc.
Westinghouse Elec. Corp.

**Fire-Proofing**
Johns Manville Corp.
Rockbestos Prod. Corp.

**Fittings, Copper Conductor**
M. B. Austin Co.
Jasper Blackburn Products Corp.
Burndy Eng'g Co.
Delta Star Elec. Co.
**Electrical Engineers Equipt. Co.**
**General Elec. Co.**
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Electrical Co., Inc.
**James R. Kearney Corp.**
Joslyn Pacific Co.
Kirk-Palka Co.
Line Material Co.
**Maydwell & Hartzell, Inc.**
Nicholas Co., F. M.
**Oliver Iron & Steel Corp.**
O. Z. Elec'l Mfg. Co.
Pacific Elec. Mfg. Corp.
Penn-Union Elec. Corp.
J. G. Pomeroy & Co.
Reliable Elec. Co.
H. B. Sherman Mfg. Co.
A. B. Smedley
Waltham, DeWitt & Krusi

**Fittings, Insulator**
Kenneth M. Anderson Co.
**Brewer-Titchener Corp.**
Buchanan Electrical Prod. Corp.
Delta Star Elec. Co.
Elec. Engrs. Equipment Co.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Electric Co.
Hubbard & Co.
Joslyn Pacific Co.
Kirk-Palka Co.
Kortick Mfg. Co.
Lapp Insulator Co., Inc.
Line Material Co.
Locke, Inc.
Maydwell & Hartzell, Inc.
Ohio Brass Co.
Penn-Union Elec. Corp.
**R. Thomas & Sons Co.**
Victor Insulators, Inc.
Westinghouse Elec. Corp.

**Fittings, Marine**
General Elec. Supply Corp.
"Hock" Ensmith Sales Co.
**Multi Elec. Mfg. Co.**
James Mundstock

**C. T. BAKEMAN & ASSOCIATES**
752 Natoma UN. 1-2840
San Francisco
*Representing*
Lighting Fixture Mfgs.
F. W. Wakefield Brass Co.
Silvray Lighting Inc.
Vision Aids Inc.
The Kirlin Co.

**Fixtures, Lighting**
Anderson Co., Kenneth
Appleton Electric Co.
Associated Lighting Service
Bakeman & Associates, C. T.
**Benjamin Elec. Mfg. Co.**
Joe Blonder Agencies
**Bright Light Reflector Co., Inc.**
E. B. Cook
**O. W. Coombs**
**Crouse Hinds Co.**
**Curtis Lighting, Inc.**
**Day-Brite Lighting, Inc.**
**Electric Agencies, Inc.**
Federal Enterprises, Inc.
Fluorescent Fixtures of Calif.
**General Elec. Co.**
**General Elec. Supply Corp.**
Gough Industries, Inc.
Gray Co., Geo. A.
Graybar Electrical Co., Inc.
**Edwin F. Guth Co.**
"Hock" Ensmith Sales
Henkel, F. C.
Holophane Co., Inc.
Hubbard & Co.
**Jones Metal Products**
Killark Elec. Mfg. Co.
Line Material Co.
McGuire, Wm. A.
Miller Co.
**James Mundstock**
Nicholas Co., F. M.

**Fixtures, Lighting**
Overbagh & Ayres Mfg. Co.
Pass & Seymour, Inc.
J. G. Pomeroy Co.
Sheeter, Hugh X.
Simplet Elec. Co.
**A. B. Smedley**
**Smoot-Holman Co.**
H. B. Squires Co.
Sylvania Elec. Products Co.
**The Wakefield Brass Co.**
**Westinghouse Elec. Corp.**
Wuelker Infra-Red & Lighting Co.

**Flashers**
Control Corp.
Crouse-Hinds Co.
General Elec. Supply Corp.
Graybar Electrical Co., Inc.
L. A. Nott
Sangamo Elec. Co.
Westinghouse Elec. Corp.

**Flashlights**
Bright Star Battery Co.
George H. Curtiss
Gough Industries, Inc.
Graybar Electrical Products Co.
Ideal Industries, Inc.
National Carbon Co.

**Floodlights**
Appleton Electric Co.
Associated Lighting Service
**Benjamin Elec. Mfg. Co.**
Ken H. Best
**Bright Light Reflector Co.**
E. B. Cook
O. W. Coombs
**Crouse Hinds Co.**
Curtis Lighting, Inc.
Geo. H. Curtiss
Electric Agencies, Inc.
**General Elec. Co.**
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
"Hock" Ensmith Sales
**Jones Metal Products Co.**
Killark Elec. Mfg. Co.
Kees Mfg. Co.
Line Material Co.
**Multi Electrical Mfg. Co.**
**Northwestern Agencies**
F. M. Nicholas Co.
Overbagh & Ayres Mfg. Co.
**Panama Lamp & Commercial Co.**
**Pittsburgh Reflector Co.**
Pyle-National Co.
Quadrangle Mfg. Co.
Reliance Sales, Inc.
**S & M Lamp Co.**
Sheeter, Hugh X.
A. B. Smedley
**Smoot-Holman Co.**
Stone Elec. Co.
Sylvania Elec. Products Co.
Waltham, DeWitt & Krusi
Westinghouse Elec. Corp.
Wuelker Infra-Red & Lighting Co.

**Floor Grating**
Blaw-Knox Co.

**Fluorescent, Fixtures & Accessories**
All Bright Electric Products
Allen & Olsen Mfg. Co.
Appleton Elec. Co.
Associated Lighting Service
Bakeman & Associates, C. T.
Benjamin Elec. & Mfg. Co.
Benz Co., Fred D.
**Joe Blonder Agencies**
**The Frank H. Bran Co.**
**Bright Light Reflector Co.**
E. B. Cook Co.
Crouse-Hinds Co.
Curtis Lighting, Inc.
**Day-Brite Lighting, Inc.**
**Electric Agencies, Inc.**
Electro Mfg. Co.
Federal Enterprises, Inc.
Fleur-O-Lier Mfrs.
**Fluorescent Fixtures of California**
General Elec. Co.
General Elec. Supply Corp.
**General Luminescent Corp.**
**Gough Industries, Inc.**
Geo. A. Gray Co.
Graybar Elec. Co.
Edwin F. Guth Co.
"Hock" Ensmith Sales
**Holophane Co., Inc.**
Industrial Electronics
Kulka Elec. Mfg. Co.
**Leader Electric Mfg. Corp.**
**Lighting Products Inc.**
**Mitchell Mfg. Co.**
Moe Bridges
**Multi Electric Co.**
James Mundstock
**F. M. Nicholas Co.**
**Panama Lamp & Commercial Co.**

*"Quiet"*

Wide-blade, high-price design at a popular price. Handsome bronze-enamel finish. Sturdy die-cast body and base. Enclosed oscillating mechanism. Guaranteed one full year. In 10-, 12-, and 16-inch blades. Two speeds on 12- and 16-inch. With wall bracket. From **$19.95,** retail.

*"Quiet De Luxe"*

Large, ultra-quiet, overlapping blades. New gunmetal-enamel finish. Distinctive cadmium-plated guard. Die-cast body and base. Oscillating mechanism totally enclosed. Guaranteed five full years. In 12- and 16-inch sizes. Three speeds. Wall bracket included. From **$44.95,** retail.

# R&M is the BIG SHOW in Fans for '49

R&M

# NEW MODELS promoted by 40,000,000 Messages in the Post!

*"Pedestal"*

Adjustable height, 38 to 62 inches from floor to center of fan. Beautiful gunmetal finish. Attractive, telescoping, chromium-plated and gunmetal column. Wide, quiet blades. Totally enclosed oscillating mechanism. Guaranteed five full years. Sixteen-inch, 2 speeds. **$58.95,** retail.

CASH IN ON AN AD A WEEK FOR 10 WEEKS IN THE SATURDAY EVENING POST

## STEP RIGHT UP, SEE THE R&M LINE FOR '49!

Beautiful new styles, smart new colors, priced for *high-unit,* trade-up sales. Yes, new *name* merchandise backed by hard-punching promotion with a real pay-off—*dealer profits.* Imagine! Ten ads in *The Saturday Evening Post* for a total of 40,000,000 messages. That's 4 million messages each and every week for ten solid weeks beginning May 28!

And that's not all! Colorful consumer folders, window and shelf strips, complete newspaper ad mats, fan cuts—all at no cost to you. And all this selling support topped off with a co-operative advertising program that *works!*

So get all the facts . . . today . . . now. Write for "Fan Promotion Kit." *Robbins & Myers, Inc., Fan Sales Div., Springfield 99, Ohio.*

**ROBBINS & MYERS, INC.**

**SPRINGFIELD 99, OHIO**
**BRANTFORD, ONTARIO**

*"Breeze-All" Floor Fan*

Durable, mottled-mahogany plastic cover. Chromium-plated legs and grille. Safe for toddlers and pets. Doubles as extra seat or table. Delivers more air per dollar than any other fan of similar type. Rubber-mounted motor is quiet. Twelve-inch, 2 speeds. **$47.95,** retail.

*"Home Cooler"*

It's *portable,* sets into open window. Appealing to *home-renters* and owners alike. Ultra-quiet, no belts, no pulleys. Clean ivory finish. Only 6½" deep. In 24- and 30-inch blades. Adjustable stand available for 24-inch model. Guaranteed one full year. Three speeds. From **$97.50,** retail.

**Fluorescent Fixtures—Cont'd**
Pass & Seymour, Inc.
J. G. Pomeroy
Quadrangle Mfg. Co.
Reliance Sales, Inc.
Sales Engineers, Inc.
Sheeter, Hugh X.
A. B. Smedley
Smithcraft Lighting Division
Smoot-Holman Co.
H. B. Squires Co.
Sylvania Elec. Products, Inc.
Westinghouse Elec. Corp.
Wheeler Reflector Co.
Wuelker Infra-Red & Lighting Co.

**Fluorescent Lacquers**
Keese Engineering Co.
General Elec. Co.
General Elec. Supply Corp.
General Luminescent Corp.
Graybar Elec. Co.
Industrial Electronics
Panama Lamp & Com'l Co.
A. B. Smedley
Sylvania Elec. Prod., Inc.
Westinghouse Elec. Corp.
Wuelker Infra-Red & Lighting Co.

**Fluxes, All Types**
L. B. Allen Co.
H. B. Squires Co.

**Furnaces, Electric**
E. B. Cook Co.
General Elec. Co.
Graybar Electrical Co., Inc.
Kirk-Palka Co.
H. B. Squires Co.
Westinghouse Elec. Corp.
E. A. Wilcox Co.

**Fuse Clips**
Elec. Specialty Co.
Ilsco Copper Tube & Prod.
H. H. Van Luven

**Fuses**
Anderson Co., Kenneth
The Frank H. Bran Co.
Bussman Mfg. Co.
A. B. Chance Co.
Cole Electric Co.
Earl S. Condon Co.
Geo. H. Curtiss
Economy Fuse & Mfg. Co.
Electric Agencies, Inc.
Electrical Engineers Equip. Co.
Electrical Specialty Co.
General Electric Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Geo. E. Honn Co.
Industrial Electronics
James R. Kearney Corp.
Killark Elec. Mfg. Co.
Line Material Co.
W. N. Matthews Corp.
Maydwell & Hartzell, Inc.
F. M. Nicholas Co.
Northwestern Agencies
Pacific Elec. Mfg. Corp.
Pacific Electro Sales Co.
Pierce Renewable Fuses
Reliable Elec. Co.
S & C Elec. Co.
Southern States Equipment Corp.
Square D Co.


**Panama Lamp & Commercial Co., Inc.**

Exclusive Representatives & Distributors

Warehouse Stocks in San Francisco, Los Angeles and Seattle

CHAMPION LAMP WORKS
Fluorescent Tubes and Incandescent Lamps
EXTRUDED PLASTICS, INC.
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INSTANT GLOW STARTER CO.
Fluorescent Starters
SLADE MANUFACTURING CO.
Electrical Specialties
SAFETY ELECTRIC CO.
Carbon, Infra Red, and Therapeutic Lamps
SUPREME LIGHTING CO.
"Supreme" Fluorescent Fixtures
RAYLITE ELECTRIC CORP.
"Paramount" Christmas Lights

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700 E. 1st St. . . . . LOS ANGELES 12 . . . MIchigan 0318
912 12th Ave. SEATTLE 22 MInor 2577

**WESTLITE**

leads in the modern lighting trend with high efficiency, clean lines and functional design.

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new type downlights with special design beam control reflectors. Inner-locked face plates, high intensity soft-edged beam.

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dramatic pin hole spots with beam passing thru 1½" ceiling aperture, low intensity, sharp-edged beam.

**Theatre, club, hotel lighting . . .**
exciting effects with the WESTLITE Dramatrol Dimmerboard, so flexible as to meet the most exacting demands in color, modeling and intensity.

**ASSOCIATED LIGHTING SERVICE**
488 BRYANT ST. - SAN FRANCISCO
EXbrook 2-4766


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Trico Fuse Mfg. Co.
H. H. Van Luven Co.
Ware Fuse Corp.
Westinghouse Elec. Corp.
Tom Wood

**Generators & Equipment**
Allis-Chalmers Mfg. Co.
Campbell & George Co.
Carlson, Fred W.
Electric Equipment Co.
Electrical Specialty Co.
General Elec. Co.
Gough Industries, Inc.
Kato Engineering Co.
Mullenbach Elec. Mfg. Co.
Pacific Electro Sales Co.
Pacific Transformer Co., Inc.
Robbins & Myers, Inc.
Ryals Electric Co.
Westinghouse Elec. Corp.

**Graphite Products**
Helwig Co.
National Carbon Co., Inc.
Ohio Carbon Co.

**Grinders, Portable**
Campbell & George
Denham Sales Service
General Elec. Supply Corp.
Graybar Electrical Co., Inc.
Ideal Industries Inc.
F. M. Nicholas Co.
Strieby & Barton

**Grounding Devices**
Agencies Co.
General Elec. Supply Corp.
O. Z. Elec'l Mfg. Co.

**Ground Rods**
M. B. Austin Co.
Jasper Blackburn Products Corp.
Copperweld Steel Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Hubbard & Co.
C. E. Ingalls
Joslyn Pacific Co.
Jas. R. Kearney Corp.
Kortick Mfg. Co.
Line Material Co.
Locke, Inc.
Maydwell & Hartzell, Inc.
National Carbon Co., Inc.
Oliver Iron & Steel Corp.
Reliable Elec. Co.

**Hangers, Cable—Conduit Box**
Associated Sales Engineers
All-Steel Equip. Co.
Appleton Elec. Co.
M. B. Austin Co.
Burndy Eng. Co. Inc.
Crouse Hinds Co.
General Elec. Co.
General Electric Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Ernest F. Hauck
George E. Honn Co.
Hubbard & Co.
James R. Kearney Corp.
Kortick Mfg. Co.
Kwikon
Line Material Co.
Maydwell & Hartzell, Inc.
Minerallac Elec. Co.
National Elec. Prod. Co.
Nat'l Tele. Supply Co.
Oliver Iron & Steel Corp.
Pacific Electro Sales
Reliable Elec. Co.
A. B. Smedley Co.
Square D Co.
Unistrut Products Co.

**Heaters, Air**
Apex Electric Heater Co.
Calif. Elec. Works
Ceazan Co., J. N.
Conlon Co., Earl S.
E. B. Cook Co.
O. W. Coombs
Copperweld Steel Co.
Geo. H. Curtiss
Electromode Corp.
General Elec. Co.
General Electric Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
"Hock" Ensmith Sales Co.
Kirk-Palka Co.
Landers, Frary & Clark
Montgomery Bros.
Noblitt Sparks Ind., Inc.
Russell & Co.
Thermador Elec'l Mfg. Co.
Trade-Winds Motorfans
Wesix Elec. Heater Co.
Westinghouse Elec. Corp.

**Heaters, Industrial**
General Electric Co.
General Elec. Supply Corp.
Graybar Elec. Co.
Rockbestos Prod. Corp.
Westinghouse Elec. Co.

**Heaters, Portable**
Apex Electric Heater Co.
Geo. H. Curtiss
Electromode Corp.
General Electric Co.
General Elec. Supply Corp.
Shepler Mfg. Co.
Swartzbaugh Mfg. Co.
Thermador Electrical Mfg. Co.
Wesix Elec. Heater Co.
Westinghouse Elec. Corp.

**Heaters, Water**
Ceazan Co., J. N.
Clark Water Heater Div., of McGraw Electric
Electromaster, Inc.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Landers, Frary & Clark
Montgomery Bros.
Swartzbaugh Mfg. Co.
Thermador Elec'l Mfg. Co.
Wesix Elec. Heater Co.
Westinghouse Elec. Corp.

**Heating Element**
E. B. Cook Co.
Driver-Harris Co.
Kirk-Palka Co.
Landers, Frary & Clark
Montgomery Bros.
Thermador Elec. Mfg. Co.
Wesix Electric Heater Co.

**Heating Element, Infrared**
Graybar Elec. Co.
No. American Elec. Lamp Co.
Panama Lamp & Com'l Co.
Westinghouse Elec. Corp.
Wuelker Infra-Red & Ltg. Co.

**Heating Pads**
General Elec. Co.
General Elec. Supply Corp.
Landers, Frary & Clark
Westinghouse Elec. Corp.

**Horns, Electric**
Federal Elec. Co.
Federal Enterprises, Inc.
Graybar Elec. Co.
F. M. Nicholas Co.

**Incandescent Fixtures & Accessories**
Associated Lighting Service
E. B. Cook
Crouse-Hinds Co.
Curtis Lighting, Inc.
Day Brite Lighting
Electric Agencies, Inc.
General Elec. Co.

Gen. Elec. Supply Corp.
General Lighting Co.
Gough Industries, Inc.
Graybar Elec. Co.
Edwin F. Guth Co.
Holophane Co. Inc.
Industrial Electronics Corp.
Killark Elec. & Mfg. Co.
Line Material Co.
Multi Electrical Mfg. Co.
James Mundstock
F. M. Nicholas Co.
Northwestern Agencies
Overbagh & Ayres Mfg. Co.
Panama Lamp & Com. Co.
J. G. Pomeroy
Pryne & Co.
Sheeter, Hugh X.
Smoot-Holman Co.
H. B. Squires Co.
F. W. Wakefield Brass Co.
Westinghouse Elec. Corp.

**Infrared Equipment**
P. J. Airey Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Mitchell Mfg. Co.
North American Electric Lamp Co.
Panama Lamp & Com. Co.
Ryals Electric Co.
Westinghouse Elec. Corp.
Wuelker Infra-Red & Lighting Co.

**Instrument, Measuring and Recording**
See Ammeters, Ohmmeters, Voltmeters.

**Insulating Materials**
F. J. Airey Co.
American Steel & Wire Co.
Anaconda Wire & Cable Co.
Anderson Co., Kenneth
Ken H. Best
Wm. Brand & Co.
Clifton Mfg. Co.
Electrical Specialty Co.
General Elec. Supply Corp.
P. D. George Co.
Gough Industries, Inc.
Graybar Elec. Co.
Insulation & Wires, Inc.
Irvington Varnish & Ins. Co.
C. D. LaMoree
Minerallac Elec. Co.
Minnesota Mining & Mfg. Co.
National Varnished Prod.
F. M. Nicholas Co.
Owens-Corning Fiberglas Corp.
Pacific Electro Sales
Schenectady Varnish Co., Inc.

**Insulation**
Wm. Brand & Co.
Electrical Specialty Co.
General Elec. Co.
Gough Industries, Inc.
Graybar Elec. Co.
"Hock" Ensmith Sales Co.
Insulation & Wires
Irvington Varnish & Insulator Co.
Johns-Manville Corp.
Kerite Co.
C. D. LaMoree
Lapp Insulator Co.
New England Mica Prod.
Ohio Brass Co.
Owens-Corning Fiberglas Corp.
A. B. Smedley Co.
Tri-State Supply Corp.
U. S. Rubber Co.
Victor Insulators, Inc.
Westinghouse Elec. Corp.

**Insulators, Glass**
Agencies Co.
Brewer-Titchener Corp.
Condon Co., Earl S.
General Elec. Supply Corp.
Graybar Elec. Co.
Joslyn Pacific Co.
Line Material Co.
Maydwell & Hartzell, Inc.
H. H. Van Luven
Waltham, De Witt & Krusi
Tom Wood
Victor Insulators, Inc.
Westinghouse Elec. Corp.

**Intercommunicating Systems**
Agencies Co.
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Brainard, W. V.
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General Lighting Co.
General Luminescent Corp.
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Wheeler Reflector Co.
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Line Material Co.
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Curtis Lighting, Inc.
Day-Brite Lighting, Inc.
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Edwin F. Guth Co.
"Hock" Ensmith Sales
The Jones Metal Prod. Co.
Line Material Co.
Multi Elec'l Mfg. Co.
Nicholas Co., F. M.
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Line Material Co.
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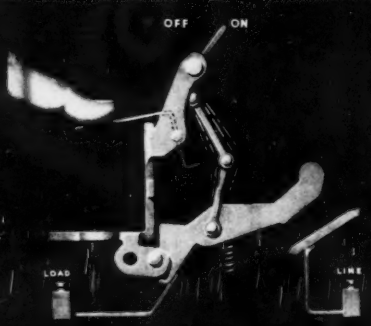
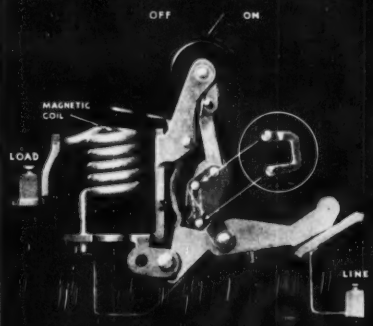


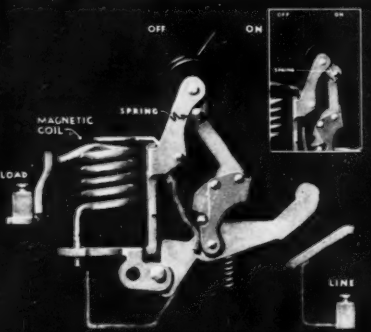

**3**

In place of a rigid link A, two links are used. Pushing the rocker collapses them and the spring opens the circuit.



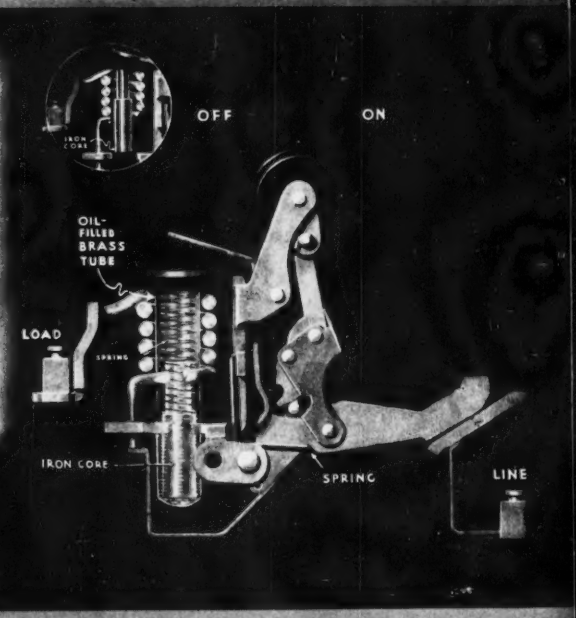

**4**

Actually a magnetic coil, in series with the load, swings the rocker. For utmost sensitivity, the foot of this rocker kicks a U-shaped trigger which normally locks the linkage into a rigid unit.




**7**

When a harmful overload occurs, increased magnetism in the coil swings the rocker. Its foot kicks the U-trigger and the breaker trips. At the same time a spring in the handle snaps it back to the "OFF" position, relocking the toggle.

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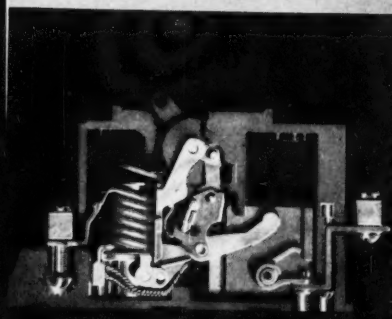
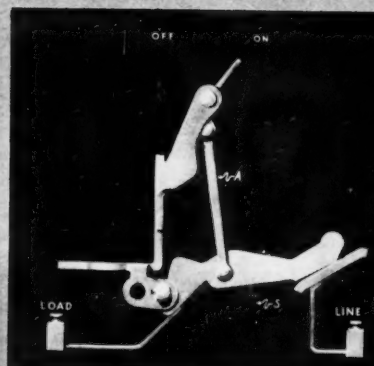


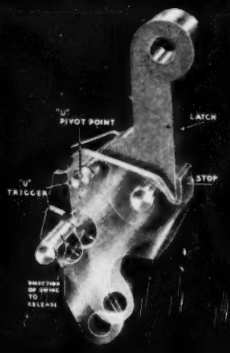
## 1

*No derating is ever necessary when Murray fully magnetic breakers protect branch circuits. Hot or cold, these dependable breakers carry rated load indefinitely, tolerate harmless temporary overloads, yet open instantly under short circuits!*




## 2

Basically the Murray *fully magnetic* circuit breaker is an automatic switch. When you push the handle "ON," schematic linkage A closes the circuit and compresses spring S.




## 5

With the U-shaped trigger in this position, the toggle mechanism is locked into a rigid unit, corresponding to link A in sketch 2 above. The tip of the latch, resting on the edge of the slot in the U-trigger, keeps it from collapsing.

## 6

When the rocker kicks the U-trigger, it pivots. The slot turns under the tip of the latch and the spring collapses the toggle.

## 8

To tolerate temporary harmless overloads, the Murray *fully magnetic* circuit breaker employs a movable iron core inside the magnetic coil. This core is immersed in hydraulic fluid sealed in a brass tube. When the breaker carries rated current, the core is below the coil and has little effect on its pull on the rocker. Overload currents pull the core toward the center of the coil, gradually increasing the magnetic field. If the overload persists, the core reaches the end of its travel and increases the magnetic pull on the rocker enough to trip the breaker. Under a short circuit the core is not needed to attract the rocker; the magnetic flux due to the coil alone trips the breaker instantly.

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Burbank Elec'l Prod.
Gough Industries, Inc.
Graybar Elec. Co.
Ideal Industries, Inc.
Lint, Clyde W.
John A. Roebling's Sons Co.
Strieby & Barton, Ltd.

**Tapes, Fibrous Glass**
Wm. Brand & Co.
Corning Glass Works
General Elec. Supply Corp.
Graybar Elec. Co.
Irvington Varnish & Insul. Co.
C. D. LaMoree
Owens-Corning Fiberglas Corp
Van Cleef Bros.
Westinghouse Elec. Corp.

**DENHAM**
**Sales Service**
538 POLK ST.
SAN FRANCISCO 2
Baldor Electric Co.
Motors — Grinders
Foredom Electric Co.
Flexible shaft machines
Speedway Mfg. Co.
Portable electric tools
The Bell Co., Inc.
Friction tape

**Tapes—Friction, Rubber—Adhesive**
Appleton Rubber Co.
M. B. Austin Co.
The Frank Bran Co.
Chapman Co., J. M.
Clifton Mfg. Co.
E. B. Cook Co.
O. W. Coombs
Denham Sales Service
Electric Agencies, Inc.
Electrical Specialty Co.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Ideal Industries, Inc.
Johns-Manville
Joslyn Pacific Co.
Minnesota Mining & Mfg. Co.
Okonite Company
Arthur E. Rowe
Superior Insulating Tape Co.
Topflight Tape Co.
U. S. Rubber Co.
Van Cleef Bros.
Westinghouse Elec. Corp.

**Tapes, Plastic**
Electrical Specialty Co.
Gough Industries, Inc.
Irvington Varnish & Ins. Co.
C. D. LaMoree
Nat'l Varnished Prod. Co.
Owens-Corning Fiberglas Corp.

**Tapes, Varnished or Oiled**
Wm. Brand & Co.
Electrical Specialty Co.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Irvington Varnish & Insulator Corp.
C. D. LaMoree
National Varnish Prod.
Owens-Corning Fiberglas Corp.
A. B. Smedley
Tri-State Supply Corp.
U. S. Rubber Co.
Westinghouse Elec. Corp.

**Telephone & Telegraph Hardware, Wire & Specialties**
American Steel & Wire
A. B. Chance Co.
Copperweld Steel Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co., Inc.
Hubbard & Co.
Hykon Mfg. Co.
Joslyn Pacific Co.
James R. Kearney Corp.
Kortick Mfg. Co.
Line Material Co.
Locke, Inc.
Maydwell & Hartzell, Inc.
National Carbon Co., Inc.
National Tel. Supply Co.
Oliver Iron & Steel Corp.
Porcelain Products, Inc.
Reliable Electric Co.
John A. Roebling's Sons Co.
Signal Electric Mfg. Co.
U. S. Steel
H. H. Van Luven Co.
Western Hardware & Tool Co.

**Telephones**
Kenneth M. Anderson Co.
E. B. Cook Co.
Crouse-Hinds Co.
Gough Industries, Inc.
Graybar Electric Co.
National Tel. Supply Co.
Webster Electric Co.

**Terminal Blocks**
Buchanan Elec'l Products Co.
Graybar Elec. Co.
Geo. E. Honn Co.
Meter Devices, Inc.
Fred M. Nicholas Co.
Ryals Electric Co.
The States Co.
H. H. Van Luven Co.

**Terminals, Cable**
Kenneth Anderson Co.
M. B. Austin Co.
The Frank H. Bran Co.
Buchanan Elec. Prod. Corp.
Burndy Eng. Co. Inc.
Earl S. Condon Co.
Electrical Engineers Equip. Co.
General Cable Corp.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Ernest F. Hauck Co.
Ilsco Tube & Copper Co.
C. E. Ingalls
Line Material Co.
F. M. Nicholas Co.
O. Z. Elec'l Mfg. Co.
Penn-Union Elec. Corp.
Reliable Elec. Co.
Safety Switchboard Co.
H. B. Sherman Mfg. Co.
A. B. Smedley
The States Co.
John B. Tubergen
H. H. Van Luven
Westinghouse Elec. Corp.

**STRIEBY & BARTON, LTD.**
**912½ East Third Street, Los Angeles 13, Calif.**
**Telephone — Michigan 2306**
EMERSON APPARATUS CO.
Insulated Staples, Painted and Unpainted
IDEAL INDUSTRIES, INC.
Motor Maintenance Tools & Equipment
Coil Winding and Repair Shop Equipment
Soldering Tools—Blowers & Cleaners
Electricians Wiring Tools, and Wire Strippers
Wire Nuts, Fuse reducers—Fish Tape
ILSCO COPPER TUBE & PRODUCTS CO.
Solder and Solderless Lugs and Connectors
POTTER & RAYFIELD, INC.
Coil Winding Equipment

**Testing Devices**
American Transformer Co.
Associated Research, Inc.
Ken H. Best
Booth Co., Arthur E.
John G. Corrin
George H. Curtiss
Graybar Elec. Co.
Holub Ind., Inc.
Geo. E. Honn Co.
Ideal Industries, Inc.
James R. Kearney Corp.
Clyde W. Lint Co.
Meter Devices Co.
L. A. Nott
T. R. Routh Co.
S & C Electric Co.
A. B. Smedley
Square D Co.
The States Co.
Strieby & Barton, Ltd.
Weston Electrical Instr. Corp
Tom Wood

**ARTHUR E. BOOTH**
ELECTRICAL TESTING APPARATUS
307 E. THIRD STREET
LOS ANGELES, CALIF.

**Tools, Misc.**
M. B. Austin & Co.
Benz Co., Fred D.
Best, Ken H.
Briegel Method Tool Co.
Buchanan Elec'l Prod. Co.
Burbank Elec. Prod.
A. B. Chance Co.
Coulson, J. C.
Denham Sales Service
Electric Agencies, Inc.
Fargo Mfg. Co. Inc.
General Elec. Co.
General Elec. Supply Corp.
Frank W. Gorman
Gough Industries, Inc.
George A. Gray Co.
Graybar Elec. Co.
Greenlee Tool Co.
Ernest F. Hauck Co.
"Hock" Ensmith Sales
Geo. E. Honn Co.
Hykon Mfg. Co.
Ideal Industries, Inc.
Joslyn Pacific Co.
Kortick Mfg. Co.
James R. Kearney Corp.
Kennamental, Inc.
Kett Tool Co.
Mathias Klein & Sons
Clyde W. Lint
Line Material Co.
Maydwell & Hartzell, Inc.
F. M. Nicholas
Northwestern Agencies
Northwest Sales Co.
F. Somers Peterson Co.
J. G. Pomeroy Co.
Signal Elec. Mfg. Co.
A. B. Smedley
Strieby & Barton, Ltd.
Trico Fuse Co.
Tri-State Supply Corp.
Western Hardware & Tool Co.
Westinghouse Elec. Corp.

**Torches**
Benz Co., Fred D.
Mathias Klein & Sons
Lenk Mfg. Co.

**Transformers—All Types**
Advance Transformer Co.
Kenneth M. Anderson Co.
Allis-Chalmers Mfg. Co.
American Transformer Co.
C. C. Blecksmith
Burlington Instrument Co.
Campbell & George Co.
Carlson, Fred W.
Cole Instrument Co.
Control Corp.
E. B. Cook
John G. Corrin
Coulson, J. C.
Duncan Elec. Mfg. Co.
Electric Agencies, Inc.
H. D. Easterbrook
Electric Equipment Co.
Gardner Elec. Mfg. Co.
General Elec. Co.
General Elec. Supply Corp.
Frank W. Gorman
Graybar Elec. Co.
Geo. E. Honn Co.
Jeffries Transformer Co.
Keese Mfg. Co.
Killark Elec. Mfg. Co.
Kirk-Palka Co.
Kyle Co.
Line Material Co.
Marcus Transformer Co.
Maydwell & Hartzell, Inc.
Moloney Electric Co.
Northwestern Agencies
Nott, L. A.
Oliver B. Lyman
Pacific Transformer Co., Inc.
Sorgel Elec. Co.
Sperti-Faraday
H. B. Squires Co.
Tierney Elec'l Mfg. Co.
Trico Fuse Mfg. Co.
H. H. Van Luven Co.
Wagner Electric Corp.
Webster Elec. Co.
Western Transformer Co.
Westinghouse Elec. Corp.
Tom Wood
Young & Co., Robert A.

**Transmission Towers Steel**
Bethlehem Steel Co.
Hughes Bros.
Maydwell & Hartzell, Inc.

**Tree, Trimming Equip.**
Bartlett Mfg. Co.
General Elec. Supply Corp.
Graybar Elec. Co.
Geo. E. Honn Co.
Joslyn Pacific Co.
Line Material Co.

**Trolley Systems**
Campbell & George
Robbins & Myers, Inc.

**Trucks, Trailers and Equipment**
Artisan Products, Inc.
Four Wheel Drive Auto Co.
Graybar Elec. Co.
Highway Trailer Co.

**Tubes, Mercury Contact**
General Elec. Co.
General Elec. Supply Corp.
Mercoid Corp.
Wuelker Infra-Red & Lighting Co.

**Tubing, Elec'l Metallic**
Aluminum Co. of America
M. B. Austin Co.
Coulson, J. C.
Electric Agencies, Inc.
Electrical Specialty Co.
Enameled Metals Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Ernest F. Hauck
Murphy-Hain Co.
Nat'l Elec. Prod. Corp.
Pacific Electro Sales, Inc.
F. Somers Peterson
J. G. Pomeroy Co.
Rome Cable Corp.
Rowe, Arthur E.
Spang-Chalfant

**Tubing, Flexible Insulating**
Allied Industries
Wm. Brand & Co.
Electrical Specialty Co.
General Elec. Co.
Insulation Mfgrs.
Irvington Varnish & Insulator Co.
Johns-Manville
C. D. LaMoree
Murphy-Hain Co.
Nat'l Elec. Prod. Corp.
National Varnished Prod.
Owens-Corning Fiberglas Corp.
F. Somers Peterson
Tri-State Supply Corp.

**Turbines**
Allis-Chalmers Mfg. Co.
E. B. Cook
General Electric Co.
Pelton Water Wheel Co.
Pyle-National Co.
Westinghouse Elec. Corp.

**Units, Range Heater**
General Elec. Co.
General Elec. Supply Corp.
Graybar Elec. Co.
Landers, Frary & Clark
Montgomery Bros.
Thermador Elec. Mfg. Co.
Westinghouse Elec. Corp.

**Vacuum Cleaners—See Appliances**

**Valves**
Carlson, Fred W.
Oliver B. Lyman
Mullenbach Elec'l Mfg. Co.
Ohio Brass Co.
Pelton Water Wheel Co.
Smith Co., S. Morgan

**Varnishes, Insulation**
Electrical Specialty Co.
General Elec. Co.
General Elec. Supply Corp.
The P. D. George Co.
Gough Industries, Inc.
Insulation & Wires, Inc.
Irvington Varnish & Insulator Co.
Joslyn Pacific Co.
C. D. LaMoree
Schenectady Varnish Co., Inc.
Tri-State Supply Corp.
Westinghouse Elec. Corp.

**Varnished Products**
Wm. Brand & Co.
Electrical Specialty Co.
Insulation & Wires, Inc.
Insulation Mfgrs.
Nat'l Varnished Prod. Corp.
Owens-Corning Fiberglas

**Wall Plates**
Fordham Mfg. Co.
Plas-Tex Corp.

**Washers, Clothes**
Bendix Home Appliances, Inc.
Ceazan Co., J. N.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
C. D. LaMoree
Landers, Frary & Clark
Little Giant, Inc.
Westinghouse Elec. Corp.

**Wattmeters**
C. C. Blecksmith
Duncan Elec. Mfg. Co.
General Elec. Co.
Graybar Elec. Co.
L. A. Nott
The T. R. Routh Co.
Sangamo Elec. Co.
Westinghouse Elec. Corp.

**Water Wheels**
Allis-Chalmers Mfg. Co.
Pelton Water Wheel Co.

**Welding Controls & Totalizers**
Mullenbach Elec'l Mfg. Co.
The T. R. Routh Co.
Square D Co.

**Welding Equip. & Accessories, Elec.**
Allis-Chalmers Mfg. Co.
American Transformer Co.
General Elec. Co.
P. R. Mallory & Co., Inc.
Graybar Elec. Co.
National Carbon Co., Inc.
Ohio Brass Co.
The T. R. Routh Co.
Strieby & Barton, Ltd.
John B. Tubergen
Westinghouse Elec. Corp.

**Winches**
Eagle Mfg. Co.
Four Wheel Drive Auto Co.
Highway Trailer Co.
Robbins & Myers, Inc.

**Wire**
Agencies Co.
American Steel & Wire Co.
Anaconda Wire & Cable Co.
M. B. Austin Co.
Benz Co., Fred D.
Wm. Brand Co.
Chapman Co., J. M.
Earl S. Condon Co.
Copperweld Steel Co.
Crescent Ins. Wire & Cable Co
Driver-Harris Co.
Electric Agencies, Inc.
Essex Wire Corp.
Fullman Mfg. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Graybar Elec. Co.
Indiana Steel & Wire Co.

C. E. Ingalls
Insulation & Wires, Inc.
The Kerite Co.
Line Material Co.

Maydwell & Hartzell, Inc.
Murphy-Hain Co.
National Elec. Products Corp.
F. M. Nicholas
Northwestern Agencies
The Okonite Company
Pacific Electro Sales, Inc.
Paranite Wire & Cable Co.
J. G. Pomeroy Co.
Rockbestos Products Corp.
John A. Roebling's Sons Co.
Rome Cable Co.
Simplex Wire & Cable Co.
A. B. Smedley
Triangle Conduit & Cable Co., Inc.
John B. Tubergen
United States Rubber Co.
United States Steel Corp.
H. H. Van Luven
Westinghouse Elec. Corp.
Young & Co., Robt. A.

**Wire, Bare Resistance**
Driver-Harris Co.
Electrical Specialty Co.
Graybar Elec. Co.
Murphy-Hain Co.
A. B. Smedley
Westinghouse Elec. Corp.

**Wire Grips**
Graybar Elec. Co.
Mathias Klein & Sons

**Wiring Devices & Supplies**
Agencies Co.
The M. B. Austin Co.
Benjamin Elec. Mfg. Co.
Benz Co., Fred D.
Jasper Blackburn Prod. Corp.
The Frank H. Bran Co.
Buchanan Elec. Prod. Corp.
Bull Dog Elec. Prod. Co.
Clifton Mfg. Co.
Collyer Insulated Wire Co.
Earl S. Condon Co.
Crouse Hinds Co.
George A. Curtiss
Electric Agencies, Inc.
Electrical Specialty Co., Inc.
Ericson Mfg. Co.
Essex Wire Corp.
General Elec. Co.
General Elec. Supply Corp.
Gough Industries, Inc.
Geo. A. Gray Co.
Graybar Elec. Co.
Geo. E. Honn Co.
Hubbard & Co.
Hykon Mfg. Co.
Ideal Industries, Inc.
Indiana Steel & Wire Co.
F. D. Kees Mfg. Co.
The Kerite Co.
Kortick Mfg. Co.
Kulka Elec. Mfg. Co.
Kwikon Co.
Line Material Co.
McGill Mfg. Co.
Minerallac Elec. Co.
Mullenbach Elec. Mfg. Co.
James Mundstock
National Tel. Supply Co.
F. M. Nicholas Co.
Northwestern Agencies
Pacific Wholesale Elec. Co.
Panama Lamp & Commercial Co.
Paranite Wire & Cable Co.
Paules, E. G.
Penn-Union Elec. Corp.
J. G. Pomeroy Co.
Porcelain Products, Inc.
Reliable Elec. Co.
H. B. Sherman Mfg. Co.
Slater Elec. & Mfg. Co.
Square D Co.
Strieby and Barton Ltd.
Sylvania Elec. Prod. Co.
U. S. Rubber Co.
Van Cleef Bros.


## *1912 - 1949*

*Yes, we have been in business 37 years. Philip G. Gough, our president today, was our president in 1912.*

*Our 37 years of constant progress have proved the truth of our motto,* ***"It Can Be Done."*** *symbolized by our Silver Hilt.*

*To be successful in this highly competitive business, we have found it pays to sell* ***Quality*** *merchandise. We feel certain you will find this true in your business also.*

**We are proud of the companies we represent. Among them are:**

Allis-Chalmers Mfg. Co.
Anaconda Wire & Cable Co.
Appleton Electric Company
Arrow-Hart & Hegeman Elec.
Benjamin Electric Mfg. Co.
Bowers Manufacturing Co.
Bryant Electric Company
Burndy Engineering Co.
Bussman Manufacturing Co.
Crouse-Hinds Company
Cutler-Hammer
Edwards and Company
General Electric Co. (Lamps)
Ideal Industries, Inc.
Kindorf Company
Line Material Company
McGill Manufacturing Co.
Mullenbach Elec. Mfg. Co.
National Carbon Co., Inc.
National Elec. Prod. Corp.
Okonite Company
Pass & Seymour
Pryne & Company
Robbins & Myers Inc.
Rockbestos Prod. Corp.
Roebling's Sons Co., John
S & M Lamp Company
Simplex Wire & Cable Co.
Smoot-Holman Company
Sperti-Faraday Company
Square D Company
Steel & Tubes
Sunbeam Lighting Company
Sylvania Elec. Prod. Co.
Thermador Elec. Mfg. Co.
Thomas & Betts Co., Inc.
Trade Wind Motorfans Inc.
Triangle Conduit & Cable
Trumbull Elec. Mfg. Company
Wesix Electric Heater Co.
Western Insulated Wire Co.
Wiremold Company

**819-827 EAST FIRST STREET • LOS ANGELES, CALIFORNIA**

# GOUGH INDUSTRIES, INC.

SINCE 1912

*Distributors of Electric Supplies and Appliances*

# DIRECTORY of APPLIANCE SERVICE and REPAIR PARTS

A listing of electrical appliance manufacturers' Western service station and parts depots. PAGES 68 TO 81.

**DIRECTORY OF MANUFACTURERS** — Alphabetical listing of manufacturers of electrical equipment, showing their principal Western offices and Sales Representatives. **Pages 2 to 49.**

**WHERE TO BUY IN THE WEST**—Alphabetical listing of various products, showing Western sources. **Pages 50 to 67.**

**DIRECTORY OF WESTERN REPRESENTATIVES** — A listing by states and cities of manufacturers' representatives handling electrical lines. **Pages 82 to 88.**

ABC HOUSEHOLD WASHER & IRONERS (See Altorfer Bros. Co.)

A. B. STOVES, Division of Detroit-Michigan Stove Co., Battle Creek, Mich.
Factory Rep. Lynn & Chemnitz, 1355 Market St., San Francisco, Calif.
**Distributors:**
Spokane: Tubbs Electric Co., South 165 Post St.; Harper-Meggee, Inc.
Seattle: Harper-Meggee, Inc., Republican and Terry Sts.; Harbor Electric Co., 538 First Ave. So. (4); Schwabacher Hardware Co., First Ave. and Jackson St.
Butte: George Steele & Co., 126 W. Broadway

ACME ELEC. HEATING CO., 1217 Washington St., Boston, Mass.
*(Acme heaters)*
**Factory service only.**

ADEL PRECISION PROD. CORP., 10777 Van Owen St., Burbank, Calif.

ADMIRAL CORP., 3800 Cortland St., Chicago 47, Ill.
*(Admiral refrigerators, ranges, television, radios; also parts for Stewart-Warner refrigerators and ranges)*
Portland: Lou Johnson Co., 422 N. W. 8th Ave. (9)
San Francisco: McCormack & Co., 450 9th St.
Los Angeles: Herbert H. Horn, 2401 S. Hill St. (7)
Salt Lake City: Walter B. Lloyd Co., 850 S. Main St. (2)
Denver: Marcus Bros., 2101 15th St. (2)

ADVANCE MFG. CO., (subsidiary of Star Mfg. Co.) 6324 St. Louis Ave., St. Louis 20, Mo.
*(electric appliances)*
**Parts available through dealers.**

AIR CONTROLS INC., Div. of Cleveland Heater Co., 2310 Superior Ave., Cleveland 14.
*(Rex air conditioning blowers, furnace blowers, attic fans, exhaust fans, window vent fans)*
**Factory service only.**

AIRCHIEF FANS (See Vidrio Products Co.)

AIRMASTER CORP., 4317 Ravenswood Ave., Chicago 13, Ill.
*(Airmaster fans, kitchen ventilators, attic ventilators, etc.)*
San Francisco: O'Keeffe the Fan Man, W. F. O'Keeffe, 55 11th st. (3). Or factory.

AIRWAY ELEC. APPL. CO., 2101 Auburn Ave., Toledo 1, Ohio.

AJAX ELEC. CO. INC., 101 Allen, Philadelphia 23, Pa.

ALABAMA MFG. CO., 1801 1st Ave. N., Birmingham 3, Ala.
*(Gem Dandy electric churn)*
**Factory service only.**

ALADDIN INDUSTRIES INC., 223 W. Jackson Blvd. (See Mantle Lamp Co. of America)

ALLIANCE MFG. CO., Mahoning Ave., Alliance, Ohio.
**Factory service only.**

ALTORFER BROS. CO., Peoria, Ill.
*(ABC household washers and ironers)*
**Service Stations**
Seattle: Appliance Parts & Service Co., 214 Stewart St. (1)
Portland: W. L. May Co., 215 N.W. Park Ave.
San Francisco: Washing Machine Parts Co., 1375 Mission St. (3); The Electric Appliance Service Corp., 236 Harriet St. (3)
Los Angeles: Electrical Appl. Service Corp., 726 W. Venice Blvd. (15); Washing Machine Parts Co., 1241 So. Hope St. (15)
Spokane: Northwest Appliance Distributors Inc., 1015 W. Riverside
San Diego: San Diego Standard Elec. Corp., Front & Ash St. (1)
Denver, Austin Appl. Co., 1819 Wazee St.
Salt Lake City: Mountain States Distr. Inc., 622 S. State St. (12) (for Utah & Idaho)
Phoenix: Arizona Hdwe. Co., First & Jackson St.
Albuquerque: J. Korber & Co., P. O. Box 486

ALUMINUM GOODS MFG. CO., 15th & Washington, Manitowoc, Wis.

AMANA SOCIETY, Amana, Iowa, Refrigeration Div.
*(Refrigerators & home freezers)*
**Representative:**
John J. Pollen, 330 So. La Brea Ave., Los Angeles, Calif.
**Distributors:**
Spokane: Prudential Distributors Inc., South 151-153 Stevens St.
Portland: Lou Johnson Co., 422 N.W. 8th Ave.
San Francisco: Dalco Appliance Co., 658 7th St., and 7th & Townsend Sts.
Los Angeles: Kinney Bros., 200 North Ave. 18.
Seattle: Love Electric Co., 1915 First Ave.
Salt Lake City, Zion Cooperative Mercantile Institution, 44 S. 2nd St. West
Denver, Graybar Electric Co., 18th & Blake Sts.
Phoenix, Appliance Distributors, 213 So. 11th Ave.
San Diego, Kinney Bros., 446 W. Beech St.
Fresno: Kinney Bros., 1717 Van Ness Ave.
Tucson: Appliance Distributors, 204 So. Park Ave.
Sacramento: Dalco Appliance Co., 6th & Que Sts.

AMERICAN BEAUTY HEATING DEVICES (See American Electrical Heater Co.)

AMERICAN ELECTRICAL HEATER CO., 6110 Cass Ave., Detroit 2, Mich.
*("American Beauty" electric heating devices)*
**Parts and service:**
Salt Lake City: Appliance Service Center, 57 Richards St. (1)
Denver: Midwest Electric Wiring Co., 323 W. Colfax Ave. (4); (9)
Seattle: Appliance Parts & Service Co., 216 Stewart St. (1)
Los Angeles: Electric Lighting Supply Co., 216 W. 3rd St. (13)
Portland: Morrison Elec. Service, S.W. Washington at Thirteenth
Oakland: California Elec. Service Stations, 166 Grand Ave. (12)
San Francisco: California Elec. Service Stations, 168 1st St. (5)
Spokane: Appliance Parts & Service Co., 609 W. Trent Ave (8)

AMERICAN IRONING MACHINE CO., Algonquin, Ill.
*(Simplex ironers)*
See Barlow & Seelig
**Parts and service:**
Los Angeles: Leo J. Meyberg Co., 2027 S. Figueroa St. (7); Elec. Appl. Service, 726 W. Venice Blvd. (15); Washing Machine Parts Co., 1241 S. Hope St. (15)
San Francisco: Leo J. Meyberg Co., 70 10th St. (1); Washing Machine Co., 1375 Mission St. (3)
San Diego: Washing Machine Parts Co., 1743 India St. (1)
Portland: W. L. May Co., 215 N. W. Park Ave. (9); Lou Johnson Co., 422 N. W. 8th Ave. (9); Northern Wholesale Hdwe. Co. Inc., 805 N. W. Glisan St. (9)
Seattle: Appliance Parts & Ser., 214 Stewart St. (1); Seattle Hdwe. Co., 501 1st Ave. S. (14)
Spokane: Spokane Paper & Stationery Co., 152 S. Jefferson St.
Salt Lake City: Salt Lake Hdwe. Co., 105 N. 3rd St. (9)
Phoenix: Momsen-Dunnegan-Ryan Co.
Denver: Auto Equip. Co., 14th at Lawrence; Morey Mercantile Co., P. O. Box 5150, Terminal Annex.

AMERICAN MICROPHONE CO., 370 So. Fair Oaks Ave., Pasadena 1, Calif.

AMERICAN SAFETY RAZOR CORP., 303 Jay St., Brooklyn, N. Y.

ANETSBERGER BROS., INC., Techny, Ill.

ANSLEY RADIO & TELEVISION CORP., 41 St., Joes Ave., Trenton 9, N. J.
West Coast Rep.: Tobey's Radio & Television Inc., 1001 So. Olive St., Los Angeles.
*(Ansley Dynatone Radios)*
Dealers are authorized service stations.

APEX ELECTRIC HEATER CO., 222 29th St., Oakland, Calif.
*(Apex electric heater)*

APEX ROTAREX CORP., Cleveland 10, Ohio
*(Cleaners, washers, ironers)*
**Parts and service:**
Oakland: Electric Appliance Parts Co., 527 E. 8th St.
San Francisco: Electrical Appl. Service Co., 1434 Howard St. (office and parts) and 245 Harriet St. (service only); Washing Machine Parts Co., 1375 Mission St.
Los Angeles: Electrical Appl. Service Corp., 726 W. Venice Blvd.; (office and parts) Washing Machine Parts Co., 1241 S. Hope St.; The Ven Corp., 2832 Newell St.( service only)
San Diego: Electrical Appl. Service Co., 302 17th St.; Washing Machine Parts Co., 1743 India St.
El Paso: Midland Specialty Co., 425 W. San Antonio St.
Phoenix: Midland Specialty Co., 233 So. 11th Ave.
Portland: W. L. May Co., 215 N. W. Park Ave.
Salt Lake City: Jackson Distributing Co., 115 So. Temple St.
Seattle: Appliance Parts & Service Co., 216 Stewart St.
Sacramento: Finnestead Washer Service, 1306 Jay St.
Spokane: Appliance Parts & Service Co., W. 609 Trent.
Billings: Electric Appliance Parts Co., 436 Yellowstone Ave.
Albuquerque: Midland Specialty Co., 208 Springer Bldg.
Denver: Ray Jones, 376 So. Broadway (9)

APPLIANCE MFG. CO., Alliance, Ohio
*(Duchess washers)*
**Distributors:**
Billings: Taylor Distr. Co., 2714 Montana Ave.
Salt Lake City: Flint Distr. Co., 316 W. 2d S. St.
*(Duchess & Kelvinator washing machines)*
**Parts only:**
Los Angeles: Electrical Appl. Serv. Corp., 726 W. Venice Blvd.
San Francisco: Electrical Appl. Service Corp., 236 Harriet St.
Denver: Ray Jones Washing Machine Parts & Repair Co., 376 S. Broadway (9)
Portland: W. L. May Co., 215 N. Park Ave. (9)
Seattle: Appliance Parts & Service Co., 216 Stewart St. (1)
Phoenix: Electrical Equip. Co., 424 Central Ave.

ARMSTRONG PRODUCTS CORP., Huntington 12, W. Va.
*(Ironers, electrical specialties)*
Los Angeles: Washing Machine Parts Co., 1241 So. Hope St.; Electric Lighting Supply Co., 216 W. 3rd St.; Elec. Appl. Service, 726 W. Venice Blvd.
Portland: W. L. May Co., 215 N.W. Park Ave.
Seattle: Appliance Parts & Service Co., 214 Stewart St.
Denver: Midwest Elec. Service Co., 1124 Santa Fe Drive
San Diego: Elec. Appl. Service Co. of San Diego, 302 17th St.; Washing Machine Parts Co., 1743 India St.
San Francisco: Will M. Aronson, 666 Howard St., Washing Machine Parts Co., 1321 Mission St.

ARTIC-TEMP MFG. CO., 302 N. Ave. 21, Los Angeles 31, Calif.

ARTISTIC NEON SIGN CO., 1661 N. Western Ave., Hollywood 27, Calif.

ARVIN PRODUCTS (See Noblitt-Sparks Industries)

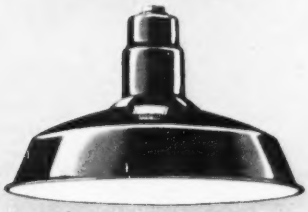
ASSOCIATED PROJECTS CO., 80 E. Long St., Columbus 15, Calif.

ASSOCIATED PROD. INC., Sales office—1025 2nd Nat'l Bank Bldg. Akron, Ohio. Factory office—20 So. Ontario St., Toledo, Ohio
**Service Stations:**
San Francisco: Dahl-Beck Electric Co., 118 Main St.
Portland: Bressie Electric Co., 909 S.W. Fifth Ave.
Seattle: Appliance Service Station, 1781 Broadway
**Distributors:**
Seattle: Earl E. Eckstrom & Associates, 2601 First Ave. So.
San Francisco: A. B. Murphy Co., 228 9th St.

ASTOR APPLIANCE CORP., 283 Green Ave., Brooklyn 5, N. Y.

AUTH ELECTRIC CO. INC., 34-20 Forty-Fifth St., Long Island City 1, N. Y.
*(AuthOtone door chimes, signaling systems)*
**Parts furnished from factory.**
**Service Stations:**
Los Angeles: Agencies Co., 125 So. Santa Fe Ave.
San Francisco: Electric Agencies Inc., 198 Georgia St. (7)
Seattle: Northwestern Agencies, 4130 1st Ave. S. (4)
Denver: E. T. Vonier, 1048 Broadway (3)

# ABolite . . . the Improved Reflector they're calling WHITER *than* WHITE



While JONES ABolite Reflectors have always been considered the finest porcelain enamel-on-steel, now they are whiter, brighter, more efficient than ever. A new-process white, coupled with our new, continuous-enameling furnaces and more positive fusing controls, has brought this amazing new finish.

This new white greatly increases the reflecting quality of these lights, giving them the highest illumination factor possible with this type of reflector. ABolite's smooth, glass-like surface is easier to clean, requires less time to maintain at top efficiency.

*The RLM label on an ABolite reflector is assurance it conforms to rigid specifications set by the RLM Standards Institute, of which Jones is a member.*

ABOLITE RLM

ABolite Reflectors are made in a variety of types and designs for every kind of indoor and outdoor lighting. Many improvements in ABolite reflector holders have made these reflectors the most economical to install and maintain. This is especially true in ABolite Duo-Move system of maintenance.

*Write for FREE SAMPLE DISC which shows our improved "Whiter than White" porcelain enamel. Ask for catalog or see your Wholesaler for complete information.*

**THE JONES METAL PRODUCTS CO. West Lafayette, Ohio**

AUTOMATIC ELECTRIC MFG. CO., 10 State St., Mankato, Minn.
**Representatives:**
Los Angeles: R. B. Clapp Co., 314 Omar Ave. (13)
San Francisco: Ballard Co., 407 Sansome St. (11)
Seattle: Dooley-Way Co., 1001 West Lake Ave. N.
Albuquerque: The Sales Co., 1624 N. First St.

AUTOMATIC PROD. CO., 2450 N. 32nd St., Milwaukee, Wis.
**Service Stations:**
Portland: Industrial Control Co., 1412 E. Burnside (4)
Spokane: Spokane Washer Co., 203 W. Main St. (9)
Seattle: Seattle Pump Service Co., 609 8th Ave. No. (9)
Denver: Instrument Service Co., 833 Champa St. (4)

AUTOMATIC WASHER CO., Newton, Iowa
*(Automatic Duo-Disc)*
Los Angeles: Electrical Appliance Service, 726 W. Venice Blvd. (15)
San Francisco: Elec'l Appliance Service
San Diego: Elec'l Appliance Service
Portland: W. L. May Co.
Seattle: Appliance Service Co.
Denver: Ray Jones Washing Machine Parts & Repair Co., 376 So. Broadway
**Repair parts for Prima washers can be furnished from factory.**

AVCO MFG. CORP.
(See Crosley Division)

BABY GRANDE WASHERS (See Vidrio Products Co.)

BARB-BROOK MFG. CO., Shreveport, La.
**Factory service only.**

BARLOW & SEELIG MFG. CO., Ripon, Wis.
*(Speed Queen washers & ironers)*
Los Angeles: Electrical Appl. Service Corp., 726 W. Venice Blvd. (15); Sues-Young & Brown Co., 1509 S. Figueroa St.; Washing Machine Parts Co., 1241 S. Hope St. (15); Gough Industries Inc., Box 2768 Terminal Annex.
Sacramento: Dalco Appl. Co., 6th & Que Sts.
San Diego: Gough Industries Inc., 3255 5th Ave.; Washington Machine Parts Co., 1743 India St. (1); Electrical Appl. Service Corp.
San Francisco: Electrical Appl. Service Corp., 236 Harriet St. (3); Washing Machine Parts Co., 1375 Mission St. (3); Dalco Appliance Co., 7th & Townsend Sts.
Portland: Harper-Meggee Inc., N. W. 15th at Irving
Seattle: Appliance Parts & Service Co., 216 Stewart St. (1); Harper-Meggee Inc., 960 Republican
Spokane: Harper-Meggee Inc., N. 734 Division St.
Ogden: Geo. A. Lowe Co.
Denver: Morey Mercantile Co., Box 5150, Terminal Annex (17) Ray Jones Washing Machine & Repair Parts Co., 376 So. Broadway (9)
Boise: Afton Lemp Electric Co., 415 So. 9th St.

BARTON CORP., West Bend, Wis.
*(Barton electric and gasoline engine washers)*
**Distributors:**
Denver: Robert F. Clark Co., 3062 Blake St.
Salt Lake City: L. Roland Bain, 462 10th E.
Billings, Mont.: Kelley-How-Thomson Co.

**Service Station:**
Los Angeles: Electrical Appl. Service Co., 726 W. Venice Blvd.
Denver: Ray Jones Washing Machine & Repair Parts Co., 376 So. Broadway (9)
Billings: Elect. Appl. Parts Co., 437 Wyoming Ave.
Phoenix: Gough Industries Inc., 917 W. Madison St.

**Representatives:**
Los Angeles: Edward Ginsberg, 712 So. Olive St.
Stockton, Calif.: The Richard A. Jesse Co., 330 E. Vine St.

BAUER MFG. CO., 3121 W. El Segundo Blvd., Hawthorne
*(Bauer Electric wall and water heaters)*
**Factory service only.**

BEALL PIPE AND TANK CORP., Portland, Ore.
*(Beall home freezers)*
**Distributors:**
Salt Lake City: Peterson & Fry Distributing Co., 923 So. State St.
El Paso: W. G. Walz, 500 San Francisco St.
Phoenix: W. G. Walz Co., 313 4th St. S.
Billings: Beall Inc., 218 N. 16th
Glen Rose, Texas: Bridges & Parnell
Rock Springs, Wyo.: City Auto Sales, 128 Elk St.
Oakland: General Kitchens, 3300 Telegraph Ave.

BELTER ELEC. MFG. CO., G. J., 3830 Olive St., St. Louis 8, Mo.
*(Belco exhaust, ventilating and window fans)*

BENDIX HOME APPLIANCES INC., 3300 W. Sample St., South Bend, Ind.
*(Bendix Home Laundry)*

**Distributors:**
Seattle: Harper-Meggee Inc., 960 Republican St. (9)
Spokane: Harper-Meggee Inc., S. 163 Lincoln
Portland: Harper-Meggee Inc., 1506 N. W. Irving St. (9)
San Francisco: Leo J. Meyberg Co., 70 10th St. (3)
Los Angeles: Leo J. Meyberg Co., 2027 S. Figueroa St. (7)
Denver: Larson Distr. Co., 1269 Broadway (Colo. & N. M.)
Salt Lake City: Flint Distr. Co., 316 W. 2d S. St. (Utah, Ida., Wyo.)
Phoenix: Electrical Equip. Co., 424 N. Central Ave.
Billings: Northwestern Auto Supply Co., 429 N. Broadway (Mont., Wyo.)
Honolulu: R. A. Howe & Co., Honolulu Merchandise Mart, Hotel at Alakea St. (9)

BENDIX RADIO, Baltimore 4, Md.
*(Division of Bendix Aviation Corp.)*
**Distributors:**
San Francisco: Graybar Electric Co. Inc., 9th & Howard Sts. (3)
Los Angeles: Graybar Electric Co. Inc., 201 Santa Fe Ave. (12)
Spokane: F. B. Connelly Co., 340 W. Trent St.
Salt Lake City: Graybar Electric Co. Inc., 245 S. First West St. (13)
Portland: Household Distributing Co., 1233 N. W. 12th Ave. (9)
Seattle: F. B. Connelly Co., 1015 Republican St. (9)
Billings: Kelley-How-Thomson Co., 2723 Minnesota Ave.
Albuquerque, N. M.: Alford's 313-17 W. Silver
Denver: Western Appliance Corp., 1147 Broadway (3)

BERNHARDT CO., INC., McDonough, Ga.
**Factory service only.**

BERSTED MFG. Co., Fostoria, Ohio.

BIRTMAN ELEC. CO., 4140 Fullerton, Chicago, Ill.

BLACKSTONE CORP., Jamestown, N. Y.
*(Blackstone washers & ironers)*
**Representatives:**
Los Angeles: H. E. Caygill, 409 E. 2d St. (12)
San Francisco: Schlendorf-Kitchner & Co., 1355 Market St.
Seattle: Radio Television & Appl. Inc., 510 Westlake Ave. N.
Portland: Stubbs Elec. Co., 33 N. W. Park Ave.
Spokane: True's Distrib. Co., N. 717 Hamilton St.
Reno: Saviers Elec. Prod., 2d & West St.
Denver: George S. Conley Co., 731 15th St.
Phoenix: Stephens Wholesale Co., 246 S. 1st St.
Salt Lake City: Vance Elec. Supply, 1063 S. State St.
Boise: Idaho Hdwe. Ltd.
Los Angeles: Electrical Appliance Service Corp., 726 W. Venice Blvd. (15)
San Francisco: Electrical Appliance Service Corp., 236 Harriet St. (3)
San Diego: Electrical Appliance Service Corp., 302 17th St. (2)
Missoula, Mont: K. G. Distributors, Inc., 126 W. Main

BORG-WARNER CO. (See Norge Div.)

BRAMMER MFG. CO., Davenport, Iowa.

BROILKING APPLIANCES (See International Appl. Corp.)

BUFFALO FORGE COMPANY, P. O. Box 985, Buffalo 5, N. Y.
*(Small exhaust fans, air condit. equip.)*
**Factory service only.**

BURDICK CORP., THE, Milton, Wis.

CADILLAC ELECTRIC VACUUM CLEANER (See Clements Mfg. Co.)

CALBEST ENG. & ELECTRONICS CO., 828 N. Highland Ave., Hollywood 38, Calif. (Formerly V-Electrical Eng. Co.)

CALIFORNIA DESIGN MFG. CORP., 228 N. Front St., Burbank, Calif.
**Factory service only.**

CALKINS APPL. CO., Niles, Mich.

CAMFIELD MFG. CO., Grand Haven, Mich.
**Service Stations:**
Billings: Billings Electric Supply Co., 214 N. 30th Ave.
Denver: Midwest Electric Co., 323 W. Colfax
Los Angeles: Electrical Appliance Service, 726 W. Venice Blvd.
Ogden: Appliance Service Center, 2420 Grand Ave.
Portland: W. L. May Co., 215 N. W. Park Ave.
San Diego: Electrical Appliance Service, 302 17th St.
San Francisco: Electrical Appliance Service, 236 Harriet
Salt Lake City: Appliance Service Center, 57 Richard St.
Seattle: A. Appliance Co., 610 E. Pine St.

CANTON CLOTHES DRYER CO., 368 Hillman Bldg., Canton, Ohio
*(Canton clothes dryer)*
**Factory service only.**

CARRIER CORP., S. Geddes St., Syracuse, N. Y.

CASS WASHERS (See Nineteen Hundred Corp.)

CASSIDY CO., 36th St. and 43rd Ave., Long Island, N. Y.

CENTURY PRODUCTS WORKS INC., 507 W. 56th St., New York City 19, N. Y.
**Factory service only**

CHAMPION LAMP WORKS, 600 Broad St., Lynn, Mass.
**Pacific Coast Distributor:**
San Francisco: Panama Lamp & Commercial Co., 815 Howard St., with warehouses at 1001 E. First St., Los Angeles, and 912 12th Ave. Seattle.

CHAPMAN REFRIGERATORS, Corvallis, Ore.

CHELSEA FAN & BLOWER CO., 1206 Grove St., Irvington 11, N. J.
**Factory service only**

†CHICAGO DRYER CO., 2210 N. Pulaski Rd., Chicago, Ill.
*(Chicago washer, ironer, clothes dryer, laundry equip.)*
**Factory service only.**

CHICAGO ELECTRIC MFG. CO., 6333 W. 65th St., Chicago 38, Ill.
*(Handshot and Sterling appliances)*
**Service stations:**
Los Angeles: Electric Lighting Supply Co., 216 W. 3rd St. (13)
San Francisco: Byington Elec. Co., 1809 Fillmore St. (15)
Portland: Bressie Elec. Co., 909 S. W. 5th St. (4)
Salt Lake City: Appliance Service Center, 57 Richards St. (1)
Butte: Radio Engineering & Service Co., 216 W. Park St.
Denver: Midwest Elec. Service Co., 1126 Santa Fe Drive
Seattle: J. M. Hooper Electric Co., 222 Marion St. (4)
Phoenix: Dependable Radio & Electronics Co., 1635 W. Jefferson St.

CHICAGO FLEXIBLE SHAFT CO. (See Sunbeam Corp.)

CHROMALOX UNITS (See Wiegand Co.)

CLARK DIV. (See McGraw Elec. Co.)

CLEMENTS MFG. CO., 6650 S. Narragansett Ave., Chicago (38), Ill.
*(Cadillac elec. vacuum cleaner)*
Seattle: Appliance Parts & Service Co., 214 Stewart St. (1); Globe Elec. Co., 307 First Ave. S. (4)
Portland: Stark's Vacuum Cleaner Sales & Service, 519 E. Burnside (14)
Los Angeles: Jesse M. Few, 1515 W. 7th St. (14)
Salt Lake City: Z.C.M.I., 351 ZCMI Ave.
San Francisco: Noel Vacuum Cleaner Co., 523 Valencia St.

CLEVELAND HEATER CO. (See Air Controls, Inc.)

CLIPSHAVE INC., 11 N. Pearl St., Port Chester, N. Y. Out of Business. See General Devices Co.

COFFEE EQUIPMENT SERVICE CO., 282 Sixth St., San Francisco
*(Vaculator Line)*

COLDSPOT REFRIGERATORS (See Seeger Ref. Co.)

COLEMAN COMPANY INC., Wichita 1, Kan. Factory Branch & Warehouse: 332-342 3rd St., Los Angeles 54, Calif.
Correspondence and orders regarding Coleman Appl. from Colo., Idaho, Mont., N. M., Utah and Wyo., sent to Wichita.
Factory branch in L. A. handles orders from Calif., Ariz., Nev., Ore., Wash. Mailing address: Box 2979 Terminal Annex P.O., L. A. 54, Calif.

COLLINS CONCRETE & STEEL PIPE CO., 3841 N. Columbia Blvd., Portland (3), Ore.
*(Collins and Watermaster elec. water heaters)*
**Factory service or local dealers only on parts. Defective parts, one year or less, should be returned with order.**

COLLMAN MFG. CORP., 421 W. 12th St., Erie, Pa.

COLONIAL-PREMIER CO., 466 W. Superior St., Chicago 10, Ill.
*(Certified lamps and shades, wallettes, and smokers)*
**Parts from factory only.**

COLUMBIA ELEC. & MFG. CO., W. 1024 Ide Ave., Spokane 5, Wash.

COLUMBIA ELECTRIC WATER HEATERS (See Nat'l Steel Construction Co.)

CONLON BROS. MFG. CORP., 4512-18 W. Fillmore St., Chicago 24, Ill.
**Parts and Service:**
Denver: Ray Jones Washing Machine Parts & Repair Co., 376 So. Broadway (9)

**CONLON DIVISION OF CONLON MOORE CORP.**, 1806-1828 So. 52nd Ave., Chicago 50, Ill.
**Parts Distributors:**
Portland: W. L. May Co. Inc., 215 N. W. Park Ave.
Los Angeles: Elec. Appl. Service Corp., 726 W. Venice Blvd.
Sacramento: Al Bedard's, 6026 N. C St.
Denver: Ray Jones, 376 So. Broadway (9)

**CONNECTICUT APPLIANCE CO.**, Winsted, Con.
*(Coronet appliances)*
**Service Stations:**
Seattle: J. M. Hooper Electric Co., 222 Marion St.
Portland: Morrison Electric Co., Washington at 13th
Los Angeles: California Electric Service Station, 1518 W. 7th St.
San Francisco: Will M. Aronson, 955 Folsom St. (7)
**Most parts available from all stations: heat pads repaired at home office only.**

**CONNECTICUT CLOCKS**
(See Ingersoll Div.)

**CONNER, W. B., ENG. CORP.**, 114 E. 32nd St., New York, N. Y.

**CONTINENTAL ELEC. CO.**, 715 Hamilton St., Geneva, Ill.
*(Cetron Tubes & Electronic Specialties)*
**Western representatives:**
Gardena, Calif.: Alfred W. Harris, Western Electronic Enterprises, 3348 W. Compton Blvd. (for California)
Seattle: C. B. Parsons & Co., 115 Belmont Ave. No. (for Washington and Oregon.)

**COOLERATOR CO.**, Duluth 1, Minn.
*(Electric refrigerators, ranges and freezers)*
**Distributors:**
Los Angeles. Sues, Young & Brown, 1509 S. Figueroa St. (15)
San Francisco: Pioneer Appliance Co., Inc., 1355 Market St. (1)
Portland: Bargelt Supply, 1131-35 S. W. Washington (5)
Seattle: Seattle Radio & Supply Inc., 2117 2d Ave. (1)
Spokane: Herb E. Zobrist Co., 121 So. Monroe St. (1)
Billings: Parker-Montana Co., 2401 Minnesota Ave., P. O. Box 989
Salt Lake City: Glenn Earl Inc., 353 W. 2d South St. (1)
Phoenix: Albert Mathias Co., 305 So. 2nd Ave.
Albuquerque: Albert Mathias Co., 315 No. Broadway
Denver: Parker Co., 1520-34 Wazee St. (2)

**CORNING GLASS WORKS**, Corning, N. Y. Branch office, 1355 Market St., San Francisco, Calif.

**CORONET APPLIANCES**
(See Connecticut Appliance Co.)

**CORY CORP.**, 221 N. LaSalle St., Chicago 1, Ill.
**Service Stations:**
Portland: Bressie Electric Co., 909 S. W. 5th Ave.
San Francisco: M. C. Ross Electrical Appliance, 190 Gough St. (2)
Los Angeles: Sterling Service, 950 So. Flower
Seattle: Appliance Service Station, 1229 Westlake Ave No.
Eugene: C & S Electric, 1070 Williamette.
San Diego: J. F. Zwiener Electric Co., 1242 First St. (1)
Denver: Midwest Electric Service Co., 323 W. Colfax Ave. (4)
Long Beach: Baum Electric Co., 1100 Myrtle Ave.
Palm Springs: McLaughlin Electric, 190 No. Indian Ave.
Sacramento: Lam-Co Electric, 1415 21st St.
Salinas: Salinas Valley Hotel Sup., 117 Main St.
Boise: Electric Service Co., 826 Idaho St.
Lewiston, Idaho: John's Electric Shop
Moscow, Idaho: Moscow Electrical Co., 203 So. Main St.
Twin Falls: Electric Service Co., 233 2nd Ave. East
Astoria: Aladdin Electric Co., 211 W. Bond St.
Bend: Deschutes Electric, 838 Wall
Grants Pass: Hollywood Electric Co., 626 So. 6th St.
Klamath Falls: Leach Service, 123 So. 6th St.
La Grande: Vaughan's Electric, 1117 Adams St.
Medford: Trowbridge & Flynn Elec., 214 W. Main St.
North Bend: North Bend Electric, 1980 Sherman Ave.
Pendleton: R. A. Fjelland Fixit Shop, Second & Courth.
Roseburg: Roseburg Electric, 131 No. Jackson.
Salem: Marion Electric Co., 2697 Portland Road.
Ogden: Appliance Service Center, 2420 Grant Ave.
Salt Lake City: Appliance Service Center, 57 Richards St.
Aberdeen: A. & F. Electric Shop, 112-114 So. Jefferson St.
Bremerton: Ahearn Electric Co., 826 6th St.
Everett: The Willingham Elec. Co., 1810 Hewitt St.
Kennewick: Grigg Bros., 214 Kennewick Ave., Box 227.
Longview: Nelson Electric Co., 1145 Commerce St.
Mount Vernon: The Consumers Elec., Inc., 2nd and Milwaukee.
Port Angeles: Olympic Electric Co., 5th and Lincoln.
Spokane: Maxwell's, Inc., First Ave. at Wall St.
Tacoma: Ajax Electric Co., 747 Fawcett Ave.
Walla Walla: Appliance Services, Inc., 113 W. Adler St.
Wenatchee: Edwards Appliance Shop, 318 Pennsylvania Ave.
Yakima: Yakima Hardware Co.

**CRISE MFG. CO.**, Columbus 16, Ohio.

**CRONHOLM MFG. CO.**, 3500 S. E. Hawthorne Ave., Portland 15, Ore.

**CROSLEY Division — Avco Mfg. Corp.**, 1329 Arlington St., Cincinnati 25, Ohio
*(Crosley radios, refrigerators, ranges and washers, kitchens)*
**Distributors handling repairs parts and doing servicing:**
San Francisco: California Elec. Supply Co., 1585 Folsom St.
Los Angeles: J. N. Ceazan Co., 1700 S. Figueroa St. (15)
San Diego: J. N. Ceazan Co., 1945 E. Harbor Dr.
Portland: Crosley Distributing Corp.
Denver: Graybar Elec. Co., Inc., Corner 18th and Blake Sts. (2)
Seattle: Commercial Appl. Co., 1534 1st Ave. S. (4)
Spokane: General Appliance Distributors, Inc., W. 345 Trent Ave.
Tucson: Appliance Distributors, 204 So. Park Ave.
Salt Lake City: Western Supply Co., 357 W. Second S. St.
Phoenix: Appliance Distributors, 213 So. 11th Ave.

**CURLEY ELEC. MFG. CO.**, 6104 W. Washington Blvd., Culver City, Calif.

**DANRAY-PARKE CO.**, 1300 East Park Place, Milwaukee 11, Wis.

**D. D. T. LITE INC.**, 3757 Wilshore Blvd., Los Angeles 5, Calif.

**DEEPFREEZE DIV. MOTOR PROD. CORP.**, 2301 Davis St., N. Chicago, Ill.
**Distributors:**
Phoenix: J. E. Redmond Supply Co., 402 W. Madison St.
Los Angeles: Sherman-Swenson & Associates, 2436 E. 8th St. (21)
San Francisco: Frank Edwards Co. Inc., Appliance Div., 382 6th St.
Salt Lake City: Jackson Distributing Co., 115 So. West Temple St.
Billings: Keefe Auto Supply Co., 3017-19 Montana Ave.
Portland: Stubbs Electric Co., 33 N. W. Park Ave. (9)
Seattle: Northwest Appliance Distributors Inc., 2704 2nd Ave. (1)
Spokane: Northwest Appliance Distributors Inc., 1015 W. Riverside (8)
El Paso: Triangle Electric Co., 333 W. San Antonio St.
Denver: Appliance Distributors Inc., 211 Wazee Market

**DELCO APPL. DIV., GENERAL MOTORS**, 391 Lyell Ave., Rochester, N. Y.

**DELTA ELEC. CO.**, 33rd and Nebraska, Marion, Neb.

**DELUXE HAIR DRYERS**
(See Vidrio Products Co.)

**DELUXE VACUUM CLEANERS**
(See Ohio Elec. Co.)

**DETROIT MICHIGAN STOVE CO.**, Battle Creek, Mich. (See A-B Stoves)

**DEXTER CO.**, Fairfield, Iowa.
Denver: Ray Jones, 376 Broadway (9)

**DeWALD RADIO MFG. CORP.**, 35-15 37th Ave., Long Island City, N. Y.
*(DeWald and Electrocall radios)*
**Factory service only.**

**DOMESTIC SEWING MACHINES CO.**, Cleveland 1, Ohio. See also White Sewing Machine Co.
**Distributors:**
Billings: Northwestern Auto Supply Co.
Denver: Boyd Distributing Co.
Los Angeles: Leo J. Meyberg Co. Inc.
Portland: Home Makers Co.
Salt Lake City: Zion's Cooperative Mercantile Institution
San Francisco: Leo J. Meyberg Co. Inc.
Spokane: Prudential Distributors Inc.

**DOMINION ELECTRICAL MFG. CO.**, 120 N. Elm St., Mansfield, Ohio
**Service Stations:**
Los Angeles: Electric Lighting Supply Co.
San Francisco: M. C. Ross, 190 Gough St.
Seattle: Hooper Electric Co.
Portland: Morrison Electric Co.
San Diego: J. F. Zwiener Electrical Co., 1242 First Ave.
Denver: Jenson's, 820 15th St.

**DORMEYER CORP.**, 4316 N. Kilpatrick Ave., Chicago, Ill.
**Service Stations:**
California Electric Service Station, 168 First St., San Francisco 5

**DOVER MFG. CO.**, 524 River St., Dover, Ohio.

**DUCHESS WASHERS**
(See Appliance Mfg. Co.)

**DUOLECTRIC STEAM IRON**
(See Silex Co.)

**DURABILT APPL.** (See Winstead Hdwe. Mfg. Co.)

**EASY WASHER MACHINE CORP.**, Syracuse, N. Y.
*(Easy washers and ironers)*
**Distributor:**
Denver: Walter Slagle & Co.
**Service Stations:**
Denver: Ray Jones Washing Machine Co., 376 So. Broadway; Niles Washing Machine Co., 509 4th St.
Seattle: Appliance Parts & Service Co., 216 Stewart St. (1)
Spokane: Inland Empire Wholesalers, 110 So. Wall St.
Portland: W. L. May Co., 215 N. W. Park Ave.
San Francisco: Washing Machine Parts Co., 1375 Mission St.; Angelus Sales & Service Co., 940 Mission St., Electrical Appl. Service Co., 1434 Howard St.
Berkeley: Home Appl. Service Co., 2318 Shattuck Ave.
Sacramento: Al Bedard's Parts Supply, 1626 N. C St.
Los Angeles: Electrical Appl. Service Corp., 726 W. Venice Blvd.
Phoenix: Graybar Elec. Co., 434 W. Madison St.
Billings: Midland Distributing Co., P.O. Box 1358.
Salt Lake City: Z C M I, 51 S. 2d West St.
El Paso: Momsen-Dunnegan-Ryan Co., P. O. Box 240
Albuquerque: Momsen-Dunnegan-Ryan Co.

**EBCO MANUFACTURING CO.**, 401 W. Town St., Columbus, Ohio
*(Oasis electric water cooler)*
**Distributors:**
Los Angeles: Commercial Refrigeration Co., 1920 Olympic Blvd. (6); United Commercial Sales Co., 233 W. 32nd St. (17); General Electric Supply Corp., 700 Turner St. (54); Kinney Bros., 200 N. Ave. 18
Long Beach: Allied Refrigeration, 1295 Gaviota Ave. (4)
Sacramento: J. H. Blair & Co., 217 N. 16th St.; York Pacific Co., 1229 Eye St. (14)
Oakland: Gilson Supply Co., 1106 Madison; California Refrigerator Co., 449 23rd St.
Stockton: G. R. Andrews Co., 679 S. San Joaquin St.
San Diego: Allied Refrigeration, 1342 F St.; Wright Refrigeration Inc., 4025 Pacific Highway; General Electric Supply Corp., 6683 3rd Ave.
San Francisco: California Refrigerator Co., 1077 Mission St.
Portland: Day-York Distr., 1123 S. W. Washington St. (5); Ralph S. Hamilton Co., 1113 N.W. Glisan St. (9)
Seattle: Palmer Supply Co., 222 Westlake Ave. N. (9); Refrigeration Engineering Co., 2120 2nd Ave. (1)
Billings: Midland Implement Co., 2303 Montana Ave.
Phoenix: Al Jennings Co., 607 W. Washington St., P. O. Box 1689; General Electric Supply Corp., 441 W. Madison St.
Tucson: Albert Steinfeld Co.
Denver: McCombs Refrigeration Supply Co., 1524 15th St., P. O. Box 5242, Terminal Annex
Pueblo: McCombs Refrigeration, 116 W 2nd St.; Associates Inc., 2109 E. Evans St.
Boise: Afton-Lemp Electric Co., 415 S. 9th St.
Silver City, N. M.: E. Cosgrove Inc.
Albuquerque: Albuquerque Lumber Co., Wholesale Division
Casper, Wyo.: Casper Supply Co., 444 S. Center St.

**EDISON GENERAL ELECTRIC APPL. CO.** (See Hotpoint Inc.)

**EDWARDS & CO. INC.**, Norwalk, Conn.
**Edwards sales offices:**
Denver: 3327 Brighton Blvd. (5)
Los Angeles: 1004 E. 4th St. (13)
San Francisco: 2720 17th St. (10)
Seattle: 2207 First Ave. (4)
Spokane: 209 Hyde Bldg.
Portland: 907 Terminal Sales Bldg.
Salt Lake City: 159 Pierpont Ave.

**ELECTRESTEEM PRODUCTS** (See Electric Steam Radiator Corp.)

**ELECTRIC HEATER CO.**, Bridgeport 1, Conn.
*(Electric water heaters)*
No sales repr. on Pac. Coast.
**Factory service only.**

**ELECTRIC HOUSEHOLD UTILITIES ORP.** (See Hurley Machine Div.)

**ELECTRIC SPRAYIT CO.**, Sheboygan, Wis.
*(Electric motors and spraying equip.)*
**Service:**
Seattle: A. D. Hewitt Co., 2718 Elliott Ave. (1)
Oakland: Air Equipment Co., 329 Broadway
Los Angeles: Atwood Machinery Co., 695 Santa Fe
San Francisco: Paul & Griffin, 417 Barry St.

ELECTRIC STEAM RADIATOR CORP., One Electric Ave., Paris, Ky.
*(Electresteem products)*
**Service:**
Seattle: Pacific Utilities, 125 N. 1st St. (9)
Portland: W. L. May Co., 215 N. Park Ave.
Salt Lake City: Wolters Electric Co., 238 S. State St.
Denver: Midwest Elec. Wiring Co., 323 W. Colfax Ave.
Los Angeles: Electrical Appl. Service Corp., 826 W. Venice Blvd.

†ELECTRICAL RESEARCH LABORATORIES INC., 2020 Ridge Ave., Evanston, Ill.
*(Eria and Sentinel radios)*
Seattle: James J. Backer Co., 2321 2nd Ave. (1) (Ore., Wash., Ida., Mont.)
Los Angeles: E. J. Jordan, 650 S. Grand Ave. (14) (Calif., Ariz., N.M., Nev.)
Denver, Parker Co., 1520 Wazee St. (Colo.)

ELECTROCHEF RANGE (See Electromaster, Inc.)

ELECTROLUX INC., 500 5th Ave., New York City, N. Y.

ELECTROMASTER, INC., Mount Clemens, Mich.
*(Electrochef range; heavy duty elec. cooking equip.)*
**Utility company service stations in territory where sold.**

ELECTRO-MITE PORTABLE WASHER (See Menasco Mfg. Co.)

ELECTROMODE CORP., 45 Crouch, Rochester 3, N. Y.
**Service Stations:**
San Francisco: The General Appliance Co., 369 Fell St.
Seattle: Electrical Engineering Co., 2012 3rd Ave.
Portland: Morrison Electric Co., 1206 So. West Washington St.

ELECTRONIC CORP. OF AMERICA, 170 53rd St., Brooklyn 32, N. Y.

ELECTRO TOOL CORP., 1718 Layard Ave., Racine, Wis.
*(Whisker Shavers and Cadet Hair Clipper)*
**Factory service only.**

ELECTRIC VACUUM CLEANER CO. (See General Electric)

ELECTRO-LOG (See Strait & Richards, Inc.)

ELECTRO-VOICE INC., Cecil & Carrol St., Buchanan, Mich.
**Factory agents:**
Van Nuys: M. D. Ealy, 4826 Tyrone Ave.
San Francisco: A. J. Hitt, 1355 Market St.
Denver: W. Clif McLoud & Co., 711 Colorado Bldg.
Seattle: George D. Norris Co., 3010 First Ave.

ELFSTROM, W. B. CO., 2300 E. 48th St., Los Angeles, Calif.

ELK MANSTER, INC., 601 E. Crosier St., Akron 1, Ohio
**Distributors:**
Long Beach: Frank E. Brady, 5864 E. 2nd
Albuquerque, N. M.: L. H. Chant Electric Co., 712 W. Cooper
Yuma, Ariz.: Curley's Electric Service, 150 4th Ave.
Riverside: Norman T. Ehlers, 6426 Magnolia Ave.
Ingleside: Glen Johnson Electric Co., 106 E. Queen St.
Santa Ana: Lindsay Electric Co., 1425 S. Main St.
San Bernardino: E. L. McAdams Electric, 376 D St.
San Fernando: Ranion Electric, 1014 De Garno St.
San Fernando: Still Electric Shop, 237 S.
Pasadena: Sander's Electric Co., 576 S. Fair Oaks Ave.
Santa Monica: Sunbeam Electric Co., 719 Santa Monica Blvd.

ELKINS-EWALL CO., 124 Market St., Philadelphia, Pa.
**Representatives:**
San Francisco: Henry M. Butcher, 1800 Franklin
Denver: H. N. Broyles, P.O. Box 473

ELRAM LAMP WORKS, Hoboken, N. J.

EMERSON RADIO & PHONOGRAPH CORP., 111 8th Ave., New York City, N. Y.

EMPIRE & EMPCO APPL. (See Metal Ware Corp.)

ERIA RADIOS (See Electrical Research Lab., Inc.)

ERLA CORP., 757 Venice Blvd., Los Angeles 15, Calif.

ESTATE HEATROLA DIV., Noma Elec. Corp., Hamilton, Ohio
Factory Warehouse, 2135 Atlantic St., Los Angeles; 60 Federal St., San Francisco.
*(Heatrola and Estate ranges)*
**Repair Parts Distributors:**
Salt Lake City: Midwest Furniture Sales, 180 W. 2nd St.
Denver: Robert F. Clark Co., 3062 Blake St.
Los Angeles: Estate Stove Co., 2135 Atlantic St.
Oakland: Household Products Co., 2783 E. 12th St.
Portland: Harper-Meggee Inc., N.W. 15th & Irving Sts.
Seattle: Harper-Meggee Inc., Republican & Terry Sts.
Spokane: Harper-Meggee, Inc., N. 743 Division
Billings: Wynward Corp., 2715 Minnesota Ave.

EUREKA WILLIAMS CORP., Bloomington, Ill.
*(Vacuum Cleaner Division)*
(See also Williams Oil-O-Matic Division.)
**Distributors:**
Los Angeles: Eureka Williams Corp., 1311 W. 7th St. (14)
San Francisco: Eureka Williams Corp., 1301 Mission St.
Phoenix: Electrical Equipment Co., 424 N. Central Ave.
Tuscon: Leeson Steel Products, 1433 So. Sixth Ave.
Salt Lake City: A. E. Carter Co., 177 E. Broadway
Billings: Taylor Distributing Co., 2716 Montana Ave.
Seattle: Harper-Meggee Inc., 960 Republican
Spokane: Harper-Meggee Inc., 734 N. Division
Portland: N. Schneider Co., Suite 112, 1009 S.W. Fifth Ave.
Denver: Auto Equipment Co., 14th at Lawrence

EVERHOT ELEC. APPL. (See Swartzbaugh Mfg. Co.)

FAIRBANKS, MORSE & CO., 600 S. Michigan Ave., Chicago 5, Ill.
*(Fairbanks, Morse water systems, washers and ironers)*
Minor repairs by dealers in field; major repairs should be referred to branch offices:
Portland: 105 S.E. Taylor St. (Ore., Wash., part Ida. and Mont.)
San Francisco: 630 3rd St. (7) (Part Calif., Ida., Nev., Wyo., all Utah & Hawaiian Is.)
Los Angeles: 4535 S. Soto St. (11) (Part Calif. & Nev., all Ariz.)
Dallas: 1713 N. Market St. (2) (Part N. Mex.)
Kansas City: 1218 Liberty St. (7) (All Colo., part N. Mex.)

FARADAY ELECTRIC CORP. (See Sperti Faraday Inc.)

FARIES MFG. CO., Decatur, Ill.

FARNSWORTH TELE. AND RADIO CORP., Fort Wayne 1, Ind.

FASCO INDUSTRIES INC., P. O. Box 509, Rochester 2, N. Y. (Formerly F. A. Smith Mfg. Co. Inc.)

FEATHERLINE CORP., 299 Madison Ave., New York City, N. Y.

FILTEX CORP., 421 E. 15th St., Los Angeles 15, Calif.
*(Hygienic Filtex cylinder type vacuum cleaner and air purifier)*
**Distributors:**
San Jose: G. A. Hanson, 276 Terraine
Los Angeles: Filtex Southern Calif. Co., 4157 W. Fifth St. (5)
San Francisco: Filtex Sales & Service, 4004 Mission St. (12)
Oakland: Max Doerfler, 304 13th St.
Portland: Filtex Oregon Co., 1625 N. E. Killingsworth
Seattle: Filtex Distributing Co., 818 E. Pike St.
Boise: O'Connell Sales & Service, 2307 W. Jefferson St.
Idaho Falls: The Filtex Agency, S. Yellowstone Ave.
Twin Falls: V. L. Miles, 445 W. 2nd Ave.
Corte Madera: H. H. Diebel, 103 Stetson Rd.
Manteca: W. D. Noland, Rt. 1, Box 216
San Diego: Filtex Sales & Service, 2518 University Ave.
Tacoma: T. R. Devereaux, 802 N. Eye St.; Robert Melvin, 1103½ Division Ave.
Butte: A. J. Mehrens, 321½ No. Alabama St.
Spokane: E. R. Raver, W. 2515 Broadway
Vancouver, Wash.: M. J. Boesel, 2210 W. 27th St.

FINDERS MFG. CO., 3669 S. Michigan Ave., Chicago, Ill.
**Service Stations:**
Denver: Western Appl. & Elec. Co., 1159 Stout St.
San Francisco: M. C. Ross, 190 Gough St.
Los Angeles: Electric Lighting Supply, 216 W. 3rd St.

FIRAN CO., 1735 Berkeley St., Santa Monica, Calif.

FLOOROLA PRODUCTS INC., 560 Maryland Ave., York, Pa.
*(Floorola floor waxer & polisher)*
**Distributors:**
Seattle: Harper-Meggee, Inc.
**Major repairs:**
Send to factory.

FLORENCE STOVE CO., 205 School St., Gardner, Mass.
*(Florence electric range—equipped with Chromalox units)*
**For Chromalox units see Edw. L. Wiegan Co.**
**Factory only for other service.**

FORESTEK PLATING & MFG. CO., 9607 Quincy Ave., Cleveland 6, Ohio.
*(Fortek sandwich toaster, food warmer trayette, table stove, combination sandwich toaster and waffle iron)*
**Factory service only.**

FOWLER MFG. CO., 2545 S.E. Gladstone St., Portland 2, Ore.
**Distributors:**
Los Angeles: Nash-Kelvinator Sales Corp., 1620 E. 7th St.
Oakland: Nash-Kelvinator Sales Corp., 2325 12th St.
Portland: Nash-Kelvinator Sales Corp., 2133 N.W. York
Seattle: Nash-Kelvinator Sales Corp., 2819 Elliott Ave.
Spokane: Nash-Kelvinator Sales Corp., 1023 W. Riverside
Billings: Midland Implement Co., 2303 Montana Ave.
Salt Lake City: Flint Distributing Co., 316 W. Second South St.
Denver: Western Appliance Corp., 1147 Broadway
Phoenix: Electrical Equipment Co. of Arizona, 424 N. Central Ave.

FREE SEWING MACHINE CO., Rockford, Ill.
*(Free-Westinghouse and New Home)*
**Free-Westinghouse—All Westinghouse Supply Co. branches and:**
Denver: Savage & Son, 200 Wazee
Reno: Saviers Electrical Prod. Co.
El Paso: Zork Hardware Co.
San Diego: Electrical Supplies Distri. Co., 435 Second Ave.
**New Home distributors:**
Los Angeles: New Home Sewing Machine Co., 1061 Broadway Pl.
San Francisco: New Home Sewing Machine Co., 1355 Market St. (3)
Phoenix: Black & Ryan, P. O. Box 2234
Denver: Auto Equipment Co., 14th at Lawrence
Salt Lake City: Jackson Distr. Co., 1008 Continental Bank Bldg.
Billings: Taylor Refrigeration Co., 2716 Montana Ave.
Spokane: Harper-Meggee Inc., N. 734 Division
Seattle: Harper-Meggee Inc., Republican & Terry St.
Portland: Harper-Meggee Inc., N. W. 15th & Irving

FRESH'ND AIRE CO., 210 N. Clinton St., Chicago, Ill.

FRIGIDAIRE DIVISION, General Motors Corp., 300 Taylor St., Dayton, Ohio
*(Frigidaire home appliances, com'l refrigeration, air conditioners)*
**Pacific Region:**
Frigidaire Division, General Motors Corp., 1355 Market St., San Francisco, Calif.
**Frigidaire Sales Corp. offices:**
Oakland: 1250 53d St. (8)
Los Angeles: 3251 Leonis Blvd. (11)
Denver: 1920 Market St. (2)
**Distributors:**
Seattle: Sunset Elec. Co., P. O. Box 3148 (14)
Spokane: Sunset Electric Co., S. 160 Howard St.
Portland: Sunset Elec. Co., 1035 N. W. 14th Ave. (9)
Salt Lake City: W. H. Bintz Co., P. O. Box 1350 (11)
Billings: Northwestern Auto Supply Co., 429 N. Broadway
**Service stations:**
Denver: Snodgrass & Smith Co., 1941 Market St. (2)
Oakland: Shirar Young Co., 24th & Broadway
San Francisco: Shirar-Young Co., Pine & Van Ness
Los Angeles: Service rendered by dealers
Billings: Service rendered by dealers
Portland: Sunset Electric Co., 1035 N. W. 14th Ave. (9)
Spokane: Service rendered by dealers.
Salt Lake City: Service rendered by dealers.

GALVIN MFG. CORP. (See Motorola Inc.)

GAROD ELECTRONICS CORP., 70 Washington St., Brooklyn 1, N. Y.
*(Radio & television products)*
**Distributors:**
San Francisco: C. C. Brown, 61 9th St
Los Angeles: Radio Products Sales Co., 1501 So. Hill St. (15)
Portland: Gilbert Bros. Inc., 826 S. W. 2d Ave.
Seattle: Herb E. Zobrist Co., 2125 Westlake Ave.
Salt Lake City: Tede & Etchingham, 244 E. 1st S.
Denver: Jake Hayutin & Sons Co., 1426 Larimer St.
Grand Junction: The Biggs Kurtz Co., 304 W. Main St.
Tucson: Arizona Appliance Mart, 312 E. Congress St.
Phoenix: Arizona Appliance Mart, 440 W. Washington St.

GAUPEL, R. J., 1909 W. 9th, Los Angeles, Calif.

GEIER CO., P. A., 540 E. 105th St., Cleveland, Ohio.
*(Royal vacuum cleaners)*
**All distributors and dealers that sold Royal will service, or may be sent direct to factory.**

GEM DANDY ELECTRIC CHURN (See Alabama Mfg. Co.)

GENERAL CONSTRUCTION CORP., St. Petersburg 7, Florida
*(Icette)*
**Service parts handled direct from plant.**

GENERAL DEVICES CO., P. O. Box 635, Springdale, Conn. Parts and repair service for Hanley Shavers and Clipshaves.

GENERAL ELECTRIC CO., 1285 Boston Ave., Bridgeport, Conn.
*(GE appliances)*
(See also Hotpoint, Inc.)
**Household refrigerators, home laundry, ranges, water heaters:**
Boise: G.E. Supply Corp., 618 S. 8th St.
Butte: G.E. Supply Corp., 900 E. Front St.
Fresno: Valley Electrical Supply Co., Power Bldg.

Los Angeles: G.E. Appliances Inc., 655 S. La Brea Ave.
Oakland: G.E. Supply Corp., 204 9th St.
Phoenix: Arizona Wholesale Supply Co., 505 W. Madison St.
Portland: G.E. Supply Corp., 300 N. W. 14th Ave.
Sacramento: G.E. Supply Corp., 1131 S St.
Salt Lake City: G.E. Supply Corp., 310 W. 2nd S.
San Francisco: G.E. Supply Corp., 1201 Bryant St.
Seattle: G.E. Supply Corp., 1212 1st Ave. S.
Spokane: G.E. Supply Corp., S. 122 Monroe St.
Tacoma: G.E. Supply Corp., 2316 A St.

**Clocks:**
Seattle: Clock Shop, Joshua Green Bldg.
Spokane: Maxwell's Inc., 619 1st Ave.
Portland: B. W. Cobb Watch & Clock Shop, 220 S. W. Alder
San Francisco: California Elec. Service Sta., 168 1st St.; General Elec. Co.; Appliance Service Center, 351 Bryant St.
Los Angeles: California Elec. Service Sta., 1518 W. 7th St.; General Electric Co., Appliance Service Center, 701 Banning St.
San Diego: J. F. Zweiner Elec. Co., 1242 1st Ave.
Phoenix: Vincent-Carter Electric Co., 325 N. 4th St.; Smith's Clock Shop, 1205 W. Jefferson
Sacramento: Lam-Co. Elec. Co., 1415 21st St.
Salt Lake City: Time & Instrument Co., 57 Richards St.
Boise: Fishers, 212 N. 9th St.

**Heating devices; sunlamps:**
Los Angeles: General Elec. Co., Appl. Service Center, 701 Banning St.
San Francisco: General Elec. Co., Appl. Service Center, 351 Bryant St.
Seattle: General Electric Co., Appliance Service Center, 211 James St.

**Automatic blankets:**
Serviced by those listed for "heating devices," "household refrigerators," and by G.E. Supply Corp. in Phoenix, San Diego, Fresno and Los Angeles.

**Fans:**
San Francisco: General Elec. Co., Appliance Service Center, 351 Bryant St.; G.E. Supply Corp., 1201 Bryant St.; Graybar Elec. Co. Inc., 190 9th St.
Salt Lake City: G.E. Supply Corp., 310 W. 2nd South; Graybar Elec. Co. Inc., 245 S. 1st W. St.
Seattle: General Electric Co., Appliance Service Center, 211 James St.
Boise: G.E. Supply Corp., 618 S. 8th St.; Graybar Elec. Co. Inc., 2227 Fairview Ave.
Butte: G. E. Supply Corp., 900 E. Front St.; Graybar Elec. Co. Inc., 604 E. Aluminum St.
Seattle: G. E. Supply Corp., 1212 1st Ave. S.; Graybar Elec. Co. Inc., King and Occidental
Tacoma: G. E. Supply Corp., 2316 So. A St.; Graybar Elec. Co. Inc., 1214 A St.; Home Electric Co., 1316 A St.
Portland: G. E. Supply Corp., 300 N. W. 14th Ave.; Graybar Elec. Co. Inc., 809 N. W. Flanders St.; Stubbs Elec. Co., 33 N.W. Park Ave.
Fresno: G.E. Supply Corp., 1234 O St.; Graybar Elec. Co. Inc., 101 Van Ness
Los Angeles: General Elec. Co., Appliance Service Center, 701 Banning St.; G.E. Supply Corp., 700 Turner St.; Graybar Elec. Co. Inc., 201 Santa Fe
San Diego: G.E. Supply Corp., 205 W. Market St.; Graybar Elec. Co. Inc., 720 State St.
Phoenix: G.E. Supply Corp., 441 W. Madison St.; Arizona Wholesale Supply, 505 W. Madison St.; Graybar Elec. Co. Inc., 434 W. Madison St.
Oakland: G.E. Supply Corp., 204 9th St.; Graybar Elec. Co. Inc., 222 9th St.
Sacramento: G.E. Supply Corp., 1131 S St., Graybar Elec. Co. Inc., 1900 14th St.
Casper: Casper Supply Co., 444 So. Center St.
Long Beach: American Wholesale Hdwe. Co., 1500 W. Anaheim
Spokane: G.E. Supply Corp., So. 122 Monroe St.; Graybar Elec. Co. Inc., So. 152 Post St.

**Radio:**
Serviced by G.E. Supply Corp. listed for "fans."

**Vacuum cleaners:**
San Francisco: General Elec. Co., Appliance Service Center, 351 Bryant St.
Los Angeles: General Elec. Co., Appliance Service Center, 701 Banning St.
Phoenix: Arizona Wholesale Supply Co., 505 W. Madison St.
Salem: Eoff Elec. Co., 156 N. Front St.
Seattle: General Electric Co., Appliance Service Center, 211 James St.
And G. E. Supply Corp. in cities listed for "fans."
*(For PREMIER Division, see listing under Premier)*

**Dishwashers and Disposalls:**
Serviced by those listed for "household refrigerators, home laundry, etc." and the following:
Los Angeles: Crane Co., 321 E. 3rd St.
Long Beach: Crane Co., 824 W. Anaheim St.
San Bernardino: Crane Co., 110 S. E St.
San Diego: Crane Co., 1138 India St.
Santa Ana: Crane Co., 919 Poinsettia St.
Phoenix: Crane Co., 233 S. 1st Ave.
Tucson: Crane Co., 35 E. Toole Ave.
Portland: Crane Co., 710 N.W. 14th Ave.
Boise: Crane Co., 214 S. 5th St.
Sacramento: Crane Co., 1227 Front St.
Reno: Crane Co., 401 E. 4th St.
Salt Lake City: Crane Co., 307 W. 2nd St.
Ogden: Crane Co., 2001 Wall Ave.
Pocatello, Idaho: Crane Co., 756 S. 1st Ave.
San Francisco: Crane Co., 301 Brannan St.
Oakland: Crane Co., 346 9th St.
Seattle: Crane Co., 419 2nd Ave. S.
Tacoma: Crane Co., 1209 S. A St.
Spokane: Crane Co., 126 S. Post St.

GENERAL MILLS INC., 1620 Central Ave., Minneapolis 13, Minn.
*(home appliances)*

**Service Stations:**
Colorado Springs: Modern Service Co., 10 E. Colorado Ave.
Butte: Radio Engineering & Service Inc., 219 W. Park St.
Denver: Bill's Elec. Appl. & Repair, 6525 W. 38th St.; Midwest Elec. Service Co., 1124-26 Santa Fe Drive
Salt Lake City: Appliance Service Center Inc., 57 Richards St.
Seattle: Howell Electric, 522 Union
Spokane: Appliance Parts & Service Co., W. 609 Trent Ave.
Tacoma: Ajax Electric Co., 747 Fawcett St.
Portland: Bressie Electric Co., 909 S. W. 5th St.
Bakersfield: Urner's Appliance Center, 212 21st St.
Fresno: Leonard F. Ballmer, 1134 Echo St.
Long Beach: Dean & Hoffman, 221 American Ave.
Los Angeles: California Electric Service Station, 825 S. Alvarado
San Diego: J. F. Zwiener Electrical Co., 1242 First Ave.
Stockton: The Electric Shop, 41 N. American St.
Ventura: Louis A. Snow, 230 E. Main St.
Boise: C. A. Bodily Radio Service, 1603 N. 13th St.
Reno: Moore-Tally Inc., 2nd and West Sts.
Phoenix: Vinson-Carter Electric Co., 325 N. 4th St.
Tucson: Grabe Electric Co., 26 E. Congress St.
Billings: Curley (—) Naylor Electric Co., 215 N. Broadway
Albuquerque: ABC Radio Service, 512 N. 4th St.
San Francisco: M. C. Ross, 190 Gough St.
Sacramento: Lam-Co., 1415 21st St.

GENERAL MOTORS CORP. (See Frigidaire Div., and Delco Appl. Div.)

GENERAL WATER HEATER CORP., 240 N. Front St., Burbank, Calif.

GENNETT & SONS, 1 Main St., Richmond, Ind.
*(Gennett Refrigerators)*
**Factory service only.**

GIBSON REFRIGERATOR CO., Greenville, Mich.
*(Gibson refrigerators, ranges and home freezers)*
San Francisco: H. R. Basford Co., 425 2nd St. (7)
Los Angeles: Graybar Elec. Co. Inc., 201 Santa Fe Ave. (12)
San Diego: Graybar Elec. Co. Inc., 106 Market St.
Portland: Elec. Distb. Inc., 140 N. W. 14th St. (9)
Seattle: Seattle Hdwe. Co., 501 1st Ave. S., Box 3208 (14)
Spokane: Spokane Paper & Stationery Co., S. 152 Jefferson St. (8)
Billings: Billings Hdwe. Co., Box 2090, 2706 Montana Ave.
Salt Lake City: Jackson Distb. Co., 48 Richards St.
Phoenix: Graybar Elec. Co. Inc., 434 W. Madison St. (2)
El Paso: Midland Specialty Co., 427 W. San Antonio St.
Denver: Austin Appl. Co., 414 15th St. (2)
Albuquerque: Midland Specialty Co.
Wyoming: Rudning - Robertson Co., Rapid City, South Dakota

GILBERT CO., A. C., New Haven 6, Conn.
*(Gilbert toys, electrical prod.)*
**Service Stations:**
Los Angeles: Motor and Machinists Elec. Supply, 236 S. San Pedro St.
Portland: Morrison Elec. Service, 1236 S. W. Washington at 13th. (fans and appliances); John J. Debe, 4529 S. E. 52nd Ave. (trains only)
Hollywood: Hollywood Hobby & Electric Shop, 1522 Cahuenga Blvd.
Long Beach: Rays Hobby Model Supplies, 1222 American Ave. (3)
Los Angeles: Gough Industries Inc., 819-827 E. First St. (54)
Oakland: John F. Brockman, 1721 Jefferson St. (12)
Pasadena: Garstang's Model-Hobby Shop, 87 E. Colorado St. (1)
San Diego: Glenn's Repair Shop, 1410 C St. (2)
Seattle: R. J. Lewis, 7001 29th Ave. N.E. (5)

GILL ELEC. MFG. CORP., 6th and Citrus St., Redlands, Calif.

G-M LABORATORIES INC., 4300 N. Knox Ave., Chicago 41, Ill.
*(Surf Electrical Appl.)*
**Factory service.**

GOODRICH MFG. CO., P. O. Box 267, So. San Francisco, Calif.

GREEN COLONIAL FURNACE CO., 322 S.W. 3d St., Des Moines 7, Iowa.
*(Green Colonial winter air conditioning equipment)*
**Factory service only.**

GRIFFIN LAMP CO., 3rd and Sycamore Sts., Hamilton, Ohio.

GRISWOLD MFG. CO., Erie, Pa.
*(Griswold com'l cooking equipment & utensils)*
**Write to factory for advice.**
**Representatives:**
Los Angeles: W. F. Smith, 6356 Drexel Ave (36)
Denver: George R. Woodward, 1863 Wazee St. (2)

HAAG BROS. CO., 830 Fayette St., Peoria 3, Ill.
*(See Ideal Parts Co.)*

HALLICRAFTERS CO., 5th & Kostner Ave., Chicago 24, Ill.
*(Radio and electrical equipment)*
**Service stations:**
Hollywood: Hollywood Electronicss, 7460 Melrose Ave.
Long Beach: Advanced Radio & Television, 1872 Santa Fe Ave.
Los Angeles: Los Angeles Radio & Sound Maint. Co., 3304 W. Washington Blvd.
Oakland: Winsby-Fleming, 2573 94th Ave.
San Bernardino: Wagoner's Radio & TV Service, 108 E St.
San Diego: FM & Television Laboratory, 621 4th Ave.
Los Angeles: Television Craftsmen, 8746 Melrose Ave.
San Francisco: Crocker-Johnson Co., 460 Townsend
Denver: Colorado Sound & Electronic Service, 170 So. Broadway
Portland: Radio Specialty Mfg. Co., 2023 S.E. 6th Ave.
Salt Lake City: Morgan & Son, 1310 Claybourne Ave.
Seattle: United Electronic Service Inc., 1160 John St.; Electronic Supply Corp., 207 So. Administration Bldg.
Tacoma: Paine Radio, 4001 So. Tacoma Way

HAMILTON BEACH CO., Div. of Scovill Mfg. Co., Racine, Wis.
*(Hamilton Beach home appliances and soda fountain line)*
Spokane: Appliance Parts & Service, 609 W. Trent Ave.
Spokane: Maxwell & Franks, 619 First Ave.
Portland: Morrison Elec. Service, 1206 S.W. Washington (5)
San Francisco: Will M. Aronson Co., 955 Folsom St. (7).
Los Angeles: Elec. Lighting Supply Co., 216 W. Third St. (13).
San Diego: J. F. Zweiner Elec'l. Co., 1242 1st Ave.
Denver: Midwest Elec. Wiring Co., 323 W. Colfax Ave.
Salt Lake City: Time & Instrument Co., 222 Dooly Bldg.
Long Beach: Gulbransen Appliance Service, 340 E. 4th St.
Seattle: Appliance Parts & Service Co., 214-16 Stewart St.

HAMILTON MANUFACTURING CO., Two Rivers, Wis
*(Hamilton automatic clothes dryer—electric or gas)*
**Distributors:**
San Francisco: Calif. Elec. Supply Co., Folsom at 12th St. (3)
Los Angeles: Sucs. Young & Brown Co., 1509 S. Figueroa St. (15)
Portland: F. B. Connelly Co. of Oregon, 1233 N. W. 12th (9)
Salt Lake City: Gordon E. Wilkins—Ironers, 144 So. 5th St. West
Seattle: F. B. Connelly Co., 1015 Republican St. (9)
Spokane: Columbia Elec. & Mfg. Co., S. 123 Wall (8)
Butte: Northwest Supply Co., P.O. Box 368
Helene: Northwest Supply Co., Box 835
Great Falls: Northwest Supply Co., Box 2033
Phoenix: Gordon E. Wilkins—Ironers, 246 So. First St.
Denver: Auto Equipment Co., 14th at Lawrence
El Paso: Car Parts Depot Inc., 712-720 Texas St.

HANKSCRAFT CO., 1007 E. Washington Ave., Madison (10) Wis.
**Factory repair service**
**Agents:**
San Francisco: Erlach - Lee Co., 1355 Market St.
Dallas: Clancey Sales Organization, St. Paul & Young Sts.

HANDYHOT APPLIANCES (See Chicago Electric Mfg. Co.)

HANOVIA CHEM. & MFG. CO., Chestnut and N.J.R.R. Ave., Newark, N. J.

HARMONY MFG. CO., 730 N. Fairfax Ave., Los Angeles, Calif.

HEALTH-MOR INC., 203 N. Wabash Ave., Chicago 1, Ill.

HEATROLA RANGES
(See Estate Heatrola)

HECTAIRE ELEC. HEATERS (See Markel Elec. Prod. Co.)

HERCULES STEEL PRODUCTS CORP. (See Star Mfg. Co.)

HEXACON ELEC. CO., 161 W. Clay Ave., Roselle Park, N. J.
**Representatives:**
San Francisco: Omer Cox Co., Rialto Bldg. (serves California)
Seattle: A. S. Knight Co., 3010 Western Avenue (1) (Serves Ore., Wash., Idaho, Mont.) (Utah, Ariz., Nev., N.M., Colo, Wyo. served by factory)

HILL-SHAW CO., 311 N. Desplaines St., Chicago, Ill.
**Service Stations:**
Los Angeles: State Appliance Service, 2224 W. 7th St.
San Francisco: Coffee Equipment Service, 282 6th St.
Denver: Midwest Electric Service Co., 323 W. Colfax Ave.
Portland: Morrison Electric Co., 1206 S.W. Washington
Spokane: Maxwells Inc., 619 W. First St.
Seattle: Appliance Parts & Service Co., 216 Stewart St.

HOBART MFG. CO., Penn. Ave. and Simpson St., Troy, Ohio.
(See also Kitchenaid Div.)

HOFFMAN RADIO CORP., 3761 S. Hill, Los Angeles 7, Calif.
**Distributors:**
Denver: Tommy Thompson's Appliance Division, 1322-24 Broadway
El Centro: Imperial Hardware Co.
Fresno: Martin Distributing Co., Inc., 2618 Tulare St.
Phoenix: Radio Specialties & Appl. Corp., 401 W. Jackson St.
Portland: Home Appliance, 1501 N.W. Kearney St.
Sacramento: E. M. Kemp Co., 1115 R St. (14)
Salt Lake City: S. R. Ross Inc., 1212 So. State St.
San Diego: Western Radio & Television Supply Co., 1415 India St. (1)
San Jose: Mr. Tom Doyle, 202 W. Santa Clara St. (22)
Seattle: Love Electric Co., 1915 First Ave.
Spokane: Prudential Distributors Inc., So. 151-53 Stevens St.
San Francisco: Mr. Walter J. Epstein, 1355 Market St. (3)

HOLLAND-RIEGER, INC., First St., Sandusky, Ohio.
Denver: Ray Jones, 376 S. Broadway

HOOVER CO., North Canton, Ohio
*(Hoover cleaners)*
**Factory branch stations** (prepared to render any service; also have service salesmen and agents throughout Western states; parts are not available to the trade.
Seattle: 2124 2nd Ave.
Tacoma: 1533 Commerce St.
Spokane: Rm. 324-5 Symons Bldg.
Portland: 19 N.E. Broadway (12)
San Francisco: 468 Turk St. (2)
Oakland: 306 12th St., Rm. 22-24
Los Angeles: 3006 W. 7th St. (5); 3422 W. Washington Blvd.
Long Beach: 1209 Pine Ave.
Pasadena: 35 S. Raymond
San Diego: 524 F St.
Denver: 2217 E. Colfax Ave.
Salt Lake City: 325 Brooks Arcade

HORTON MANUFACTURING CO., 731 Osage St., Fort Wayne 1, Ind.
*(Horton washers and ironers)*
**Service Stations:**
Seattle: Appl. Parts & Service, 216 Stewart St.
Los Angeles: Elec. Appl. Service Corp., 726 W. Venice Blvd.; Washing Machine Parts Co., 1241 S. Hope St.
San Francisco: Elec. Appl. Service Corp., 236 Harriet St. (3); Washing Machine Parts Co., 1375 Mission St.
Long Beach: Home Service Co., 2100 E. 4th St.
Portland: W. L. May Co., 215 N.W. Park Ave. (9); Appliance Wholesalers, 600 N.W. 14th Ave.
Denver: Ray Jones, 376 S. Broadway (9); Niles Washing Machine Supply, 509 14th St.
San Diego: Washing Mach. Parts Co., 1743 India St.; Electrical Appliance Service Corp., 302 17th St.
Salt Lake City: A-1 Master Electrical Shop, 47 E. 4th St.
Sacramento: Al Bedard's, 1626 N. C St.

HOTPOINT INC., 5600 West Taylor St., Chicago 44, Ill.
*(Hotpoint ranges, water heaters, refrigerators, washers, ironers, dishwashers, dryers, disposalls, Electric-Sinks, Commercial Cooking equipment)*
**Household appliances:**
Seattle: Graybar Elec. Co. Inc., King & Occidental st. (4)
Spokane: Graybar Elec. Co. Inc., 152 S. Post St.
Tacoma: Graybar Elec. Co. Inc., 2112 A St.
Portland: Graybar Elec. Co. Inc., 809 N.W. Flanders St. (9)
San Francisco: Graybar Elec. Co. Inc., 9th and Howard St. (3)
Fresno: General Elec. Supply Corp., 1234 O St.
Los Angeles: General Elec. Supply Corp., 700 Turner St. (12)
San Diego: General Elec. Supply Corp., 205 W. Market St.
Denver: General Elec. Supply Corp., 1429 18th St.
Salt Lake City: Graybar Electric Co. Inc., 245 S. 1st W. St.
Phoenix: General Elec. Supply Corp., 441 W. Madison St.
Honolulu: Hawaiian Elec. Co., Box 2750
**Commercial cooking equipment:**
Seattle: General Elec. Co. Service Shop, 1508 4th Ave. S. (4)
Portland: Bressie Elec Co., 909 S.W. 5th Ave. (4)
San Francisco: Marine Elec. Co. 195 Fremont St. (5)
Los Angeles: Utility Repair Shop 1928 W. 7th St. (5)
San Diego: Zweiner Elec. Co., 1242 1st Ave.
Salt Lake City: General Electric Supply Corp., 312 W. 2nd St.
Honolulu: Hawaiian Elec. Co., Box 2750

HOTSTREAM HEATER CO., 2363 E. 69th St., Cleveland (4) Ohio

HOWARD RADIO CO., 1735 Belmont Ave., Chicago 13, Ill.
*(Howard radios)*
**Distributors:**
Los Angeles: Howard Radio Distributing Co., 1855 Industrial St. (21)
San Francisco: Associated Radio Distr., 1251 Folsom St. (3)
Portland: United Radio Supply Co., 22 N.W. 9th Ave. (5)
Seattle: Distributors Inc., 2118 4th Ave. (1)
Spokane: Tubbs Electric Co., So. 165 Post St. (8)
Salt Lake City: Radio Supply Co., 45 E. 4th S. St. (1)
Phoenix: Arizona Hdwe. Co., 1st & Jackson St.
Denver: Radio Prod. Sales Co., 1237 16th St.

HURLEY MACHINE DIV.
(See Thor Corp.)

HYDRO-AIRE CO., 626 N. Robertson Blvd., Los Angeles 46, Calif.

ICETTE
(See General Construction Corp.)

IDEAL PARTS CO., 830 Fayette St., Peoria 3, Ill.
*(Supply repairs for Haag Washers)*

INDUSTRIAL TIMER CORP., 115 Edison Pl., Newark 5, N. J.
*(Factory service only)*

ILLINOIS SEWING MACH. CO., (See Free Sewing Machine Co.), Rockford, Ill.

ILLUSTRAVOX
(See Magnavox Co.)

†INGERSOLL, DIV. of WATERBURY CLOCK CO., 31 Cherry Ave., Waterbury 91, Conn.
*(Ingersoll, Kelton, Connecticut and Waterbury clocks)*
**Factory service only.**

INTERNATIONAL APPLIANCE CORP., 2 E. 23rd St., New York 10, N. Y.
*(Broilking appliances)*
San Francisco: Will M. Aronson, 955 Folsom St. (7)
Los Angeles: Elec. Lighting Supply Co., 216 W. 3rd St. (13)

INTERNATIONAL HARVESTER CO., 180 N. Michigan Ave., Chicago 1, Ill.

INTERSTATE
(See Revelation Co.)

INTERSTATE ENGINEERING CORP., 2600 W. Imperial Highway, El Segundo, Calif.
*(Compact vacuum cleaners)*
**Repair parts and service at factory.**

IRON FIREMAN MANUFACTURING CO., 3170 W. 106th St., Cleveland 11, Ohio
*(Automatic heating & power equip.)*
**Parts and service from Portland, Ore., plant, 4784 S.E. 17th Ave. 2**

IRONRITE IRONER CO., 332 Cass Ave., Mt. Clemens, Mich.
*(Ironrite Ironer)*
Los Angeles: Ironers Inc., 334 N. San Pedro St.
Oakland: Ironers Inc., 3100 Telegraph Ave.
Seattle: F. B. Connelly Co., 1015 Republican St.
Spokane: Huletz Elec. Co., S. 121 Monroe St.
Portland: F. B. Connelly Co., 1233 N.W. 12th Ave.
Salt Lake City: Wilkins Distr. Co., 50 Richards St.
Billings: Midland Implement Co. Inc.
Denver: Western Appl. Corp., 1147 Broadway
Albuquerque: Alford's Wholesale, 413 N. 2nd St.
Phoenix: W. G. Walz Co., 313 S. 4th Ave.

JACKSON APPL. MFG. CO., 75 Frant St., Brooklyn 1, N. Y.

JACOBS CO., F. L., 1043 Spruce St., Detroit 1, Mich.
*(Launderall)*
**Distributors:**
San Francisco: McCormack & Co., 450 9th St. (3)
Los Angeles: Ray Thomas Co., 1601 S. Hope St. (15)
Portland: Huletz Elec. Co., 1132 N. W. Glisan St. (9)
Seattle: Huletz Elec. Co., Broadway at Pike (22)
Spokane: Huletz Elec. Co., S. 121 Monroe
Billings: Hoffman-Melnick Distr. c/o Bruce Cook Transp. & Storage Co., 2801 Minnesota Ave.
Salt Lake City: Gordon E. Wilkins Inc., 50 Richards St.
Albuquerque: Alford's Wholesale, 413-415 N. 2nd St.
Denver: Hoffman-Melnick Distr., 860 Broadway (3)
Phoenix: Gordon E. Wilkins Inc., c/o Sloan Transfer & Storage Co., 21 E. Buchanan St.

JAMES CLOCK MFG. CO., 5307 E. 14th St., Oakland 1, Calif.
*(James Remind-O-Clock)*
**Factory service only.**

KAUFMAN MFG. CO., Manitowoc, Wis.
**Factory service only.**

KELTON CLOCKS
(See Ingersoll Div.)

KELVINATOR (See Nash-Kelvinator)

KEYSTONE SILVER INC., 509 W. 34th St., New York 1, N. Y.
*(Keystoneware percolators)*
**Service stations:**
Los Angeles: Electric Lighting Supply Co., 216 W. 3rd St.
San Francisco: M. C. Ross, 190 Gough St.
Portland: Morrison Electric Co., 1206 S.W. Washington St.
Seattle: A Appliance Co., 610 E. Pine St.

KIRBY HOME RENOVATION SYSTEM (See Scott & Fetzer Co.)

KITCHENAID DIV., Hobart Mfg. Co., Troy, Ohio
*(Kitchenaid electrical food preparer)*
**Service Stations:**
Hobart Sales Agency in San Francisco, San Diego, Santa Rosa, San Jose, Sacramento, Fresno, Los Angeles, Oakland, Denver, Pueblo, Billings, Portland, Seattle, Spokane, Tacoma, Salt Lake City

KINSFORD SPECIALTY CO., 3915 Powelton Ave., Philadelphia, Pa.

KITCHEN QUEEN, INC., 1825 Cermak Rd., Chicago 8, Ill.

KNAPP-MONARCH CO., Bent & Potomac St., St. Louis 16, Mo.
*(elec. appl., fans, Knapp shaver)*
**Service Stations:**
Denver: Stafford Electronics, 1423 Curtis St. (2)
El Paso: Specialty Hardware Co., 412 Texas Ave.
Honolulu: Automative Service Co. Ltd., South and Kawaiahao St.
Los Angeles: Elec'l. Appl. Service Corp., 726 W. Venice Blvd.
Phoenix: Vinson-Carter Elec. Co., 325 N. 4th
Portland: Morrison Elec. Service (appl. only), 1236 S. W. Washington (5); Houston's (Spark. syph. only), 403 S. W. 10th.
Oakland: Calif. Elec. Service Sta., 166 Grand Ave.
Salt Lake City: Wolters Elec. Co., 238 S. State St.
San Diego: Elec'l. Appl. Service Corp., 302 17th St.
San Francisco: Calif. Elec. Service Co., 236 Harriet St.
Seattle: Bressie Electric Co., 608 Pike St. (1)
Spokane: Maxwells Inc., 1st Ave. at Wall St. (8)
Sacramento: Remington Vacuum Cleaner Center, 1417 16th St.
Billings: Billings Electric Supply Co., 208 N. 29th St.
Albuquerque: L. H. Chant Electric Co., 111 S. 5th St.

KORD MANUFACTURING CO. INC., 4510 White Plains Road, New York 65, N. Y.
*(Heaters and table stoves)*
**Service Stations:**
San Francisco: M. C. Ross, 190 Gough St. (for California)
Boise: C. A. Bodily Radio Service, 1603 No. 13th (for Idaho)
Salt Lake City: Appliance Service Center, 57 Richards St. (for Utah)
Portland: Arrow Electric Co., 911 S.W. 9th Ave. (for Oregon)

L. & H. ELECTRIC RANGES (See A. J. Lindemann & Hoverson Co.)

LACO OIL BURNER CO. INC., Griswold, Iowa
*(Laco Oil Burners)*
*(Minor repairs by local Laco dealers)*
**Factory service only.**

LAKE STATE PROD., INC., 1623 Wildwood Ave., Jackson, Mich.
**Distributors:**
Portland: Field Sales Co., 645 S. E. Ankeny St.
Seattle: Commercial Appliance Co., 1531 First Ave. So.
Spokane: Standard Sales Inc., West 1219 First Ave.
San Francisco: Apex Rotarex Corp., 1355 Market St.
Los Angeles: J. N. Ceazan Co., 1700 So. Figueroa St. (15)
San Diego: J. N. Ceazan Co., 1945 E. Harbor Drive
Great Falls: Graham & Ross Mercantile Co., 6th St. at First Ave.
Salt Lake City: Jackson Distributing Co., 115 S.W. Temple St.
El Paso: Midland Specialty Co., 425 W. San Antonio St.

LANDERS FRARY & CLARK, New Britain, Conn.
*(Universal electric appl.)*
**Service Stations:**
Los Angeles:* Electrical Appliance Service Corp., 726 W. Venice Blvd.
San Diego: J. F. Zwiener Elec'l. Co., 1242 1st Ave.
San Francisco:* Universal Elec. Appl. Co., 1265 Folsom St. (3)
Portland: Morrison Elec. Co., 1236 S.W. Washington at 13th St. (5)
Seattle: Howell's Electric Supply & Service Co., 522 Union St.
Spokane: Maxwell's Inc., 1st Ave. at Wall St. (8)
Salt Lake City: Appliance Service Center, 57 Richards St.
Phoenix: Vinson Carter Elec. Co., 325 N. 4th St.
Denver: Ray Jones, 376 S. Broadway (9)
Butte: Radio Eng. & Service Co., 219 W. Park St.
Tacoma: Ajax Electric Co., 747 Fawcett Ave.
*—Cleaner service & parts as well as small appliances parts & service

LaSALLE LIGHTING PROD., INC., 143 Seneca St., Buffalo 3, N. Y.
**Service Stations:**
Portland: Morrison Elec. Service Co., 5 S.W. Washington & 13th St.
Seattle: J. M. Hooper, 222 Marion St. (4)
San Francisco: M. C. Ross, 190 Gough St. (2)
Los Angeles: Motor & Machinists Supply Co., 230 S. San Pedro St. (12)

LAUNDERALL WASHERS
(See Jacobs Co.)

LEAR INC., 110 Ionia Ave., N. W., Grand Rapids 2, Mich.
**Service Distributors and Dealers**
San Francisco: C. J. Hendry Co., 27 Main St. (5)
Phoenix Aircraft Radio Service Co., P. O. Box 2287 Sky Harbor Airport
Long Beach: Skycrafters Aviation Radio, 2735 E. Spring St.
Los Angeles: Lush Aircraft Radio, Municipal Airport, 5907 W. Imperial Highway
Monterey: Del Monte Aviation Co., P. O. Box 1311
Van Nuys: Airborne Electronics Co., Metropolitan Airport, Hangar No. 3
Salt Lake City: Altair Inc., 520 Felt Bldg.
Boise: Aircraft Service Co., P.O. Box 829, Bradley Field
Seattle: Angle Radio Co., Boeing Field
Santee, Calif.: Bart Stevenson, Gillespie Airport
Portland: A. W. Whitaker, P. O. Box 1811 (11)
Denver: Aircraft Radio & Accessory Co., Stapleton Airfield

LEKTRO PRODUCTS INC., Milford, Conn.
*(Packard shavers)*
**Service Stations:**
Phoenix: 128 S. Central Ave.
Tucson: 307 E. Congress St.
Fresno: 1916 Fresno St.
Hollywood: 6636 Hollywood Blvd.
Long Beach: 238 E. 1st St.
Los Angeles: 711 S. Olive St. (14)
Oakland: 25 Grand St. (12)
Sacramento: 1107 J St.
San Diego: 426 C St.
San Francisco: 41 1st St.; 450 Geary St.
Denver: 1525 Arapahoe St. (2)
Portland: 525 S. W. Pine St. (4)
El Paso: 407 Texas St.
Salt Lake City: 47 W. S. Temple St.
Seattle: 1910 4th Ave. (1)
Spokane: W. 916 Riverside Ave. (2)
Tacoma: 1003 A St.
Boise: 609 Bannock St.

LECTRO SPEED CO., 3025 S. W. First Ave. (1)
*(Automatic hot water heaters)*
**Factory service for Oregon and Southern Washington:**
Seattle: W. W. Wheat & Son, 560 First St.
Los Angeles: E. W. Rogers, 1864 N. Commonwealth (for California)
**For trailer water heaters:**
Kennewick, Wash.: Keith Trailer Sales & Repair, P. O. Box 363
Eugene: Eugene Trailer Service
Seattle: A. & B. Trailer Repair, 10030 Marginal Way
Salem: Jayhawk Trailer Sales Co., 2640 Portland Road
San Leandro: West Coast Trailer Sales, 15201 E. 14th
Tacoma: Tacoma Trailer Repair, 94th & So. Tacoma Way

LEONARD REFRIGERATORS
(See Nash-Kelvinator)

LEWYT CORP., Vacuum Cleaner Division, 60 Broadway, Brooklyn 11, N. Y.
**Distributors:**
Denver: Robert F. Clark Co., 3062 Blake St.
Salt Lake City: W. H. Bintz Co., 433 W. 3rd St.
El Paso: E. H. Krohn & Co., 113 E. Overland
Seattle: F. B. Connelly Co., 1015 Republican St.
Los Angeles: Sues, Young & Brown Inc., 1509 So. Figueroa St.
Portland: Harper-Meggee Inc., N.W. 15th & Irving
Billings: Northwestern Auto Supply Co., 420 No. Broadway
Spokane: Inland Empire Wholesalers, 110 So. Wall St.
San Francisco: Frank Edwards Co. Inc., 382 6th St.

LIBERTY ELEC. CO., 1915 Madison Ave., Indianapolis, Ind.

LIGHTOLIER CO., Jersey City 5, N. J.

LIGHTING PRODUCTS INC., Highland Park, Ill.
**Representatives:**
Denver: Fred E. Staible & Sons, 2046 Arapahoe
Seattle: Wm. Proby, 442 Smith Tower (4)
San Francisco: McMillen-Stanley Co., 778 Natoma St.
Portland: E. A. Ryan, 4271 S. E. Stark (15)
Los Angeles: Black & Lem, 5455 Hollywood Blvd.

LIGHTS, INC., 111 S. Fremont, Alhambra, Calif.

A. J. LINDEMANN & HOVERSON CO., 601 W. Cleveland Ave., Milwaukee 7, Wis.
*(L&H electric ranges & water heaters)*
**Distributors:**
San Francisco: Lavenson & Savasta, 1208 Howard St. (3)
Los Angeles: Ray Thomas Co., 1601 So. Hope St. (15)
Portland: Appliance Wholesalers of Oregon, 600 N. W. 14th Ave. (9)
Seattle: Northest Appliance Distributors Inc., 2704 2nd Ave. (1)
Spokane: Northwest Appliance Distributors Inc., West 1015 Riverside
Salt Lake City: Z.C.M.I. Wholesale Furn. & Appl. Div., 51 S. 2nd St.
Denver: Ralph Olsen Sales Co., 30 W. 13th Ave. (4)

LIONEL CORP., 15 E. 26th St., New York 10, N. Y.
(Factory: 28 Segar Place, Irvington, N. J.)
*(Lionel elec. trains, stock watch electric fence control)*
**Service Stations:**
Phoenix: Shaw's Garage, 1522 W. Jefferson St.
Alhambra, Calif.: W. L. Moore, 808 S. 2nd St.
Bakersfield: Snider's, 1011 Baker St.
Fresno: Hyrn Bros. Radio & Television, 1130 Echo
Inglewood: The Hobby Horse, 610 E. Monchester Blvd.
Colton: B. Wise, 1015 Mt. Vernon Ave.
Hollywood: Hollywood Hobby & Elec. Shop, 1522 Cahuenga Blvd.
Kingsbury: Olson Bros., 1530 Marion
Long Beach: Ray's Hobby Model Supply, 1222 American Ave.
Los Angeles: J. R. Metz, 1753 W. 21st St.; Motor & Machinists Supply Co., 230 S. San Pedro St.; Train Repairs, 5406½ Lemon Grove; Troxel Bros., Models, 1730 W. Adams Blvd.
Oakland: Jack Collier's "Toys for Men," 3669 Grand Ave.; Lee's Train Service, 4400 Clarewood Drive
Palo Alto: Palo Alto Sport Shop, 526 Waverly St.
Pasadena: Garstang's Model-Hobby Shop, 87 E. Colorado St.
Sacramento: H. Cameron Jr., 609 Jay St.; H. K. Vance, Train Repairs, 2784 Portola Way
San Diego: Frank "The Trainman", 4459 Cleveland Ave.
San Francisco: Calif. Elec. Service Sta., 168 1st St. (5) Roger & Co., 910 Valencia St.
Venice, Calif.: Wash. Cycle Co., 1637 Washington Blvd.
Ventura: La Casa Hobby Shop, 176 S. California St.
San Mateo: Jack Smith Toys & Bicycles, 1927 El Camino Real
Colorado Springs: Earl Udick Service, 115 N. Nevada Ave.
Denver: Fisher Hdwe. Co., 2322 E. Colfax Ave.; John F. Mathias, 1110 18th St.
Portland: Reginald Bowles, 5317 Southeast Belmont
Eugene: Rees Electric Co., 1194 Williamette St.
El Paso: Lowenberg Radio Service, 2511 E. Yandell Blvd.
Salt Lake City: Zion's Cooperative Mercantile Inst., Dept. 110, 15-39 S. Main St. Electronic Service & Supply Co., 115 E. Broadway
Bremerton, Wash.: Modern Home Store
Everett: Edw. E. Douglas, 3002 21st St.
Seattle: R. J. Lewis, 7001 21st St.
Selah: Staves & Son
Spokane: Spokane Cycle & Toy Co., 217 N. Post St.
Sitka, Alaska: Sitka Elec. Shop, P. O. Box 197

LITTLE GIANT INC., 548 Claire St., Hayward, Calif.
*(Laundry tray washers)*
**Parts and service:**
San Francisco: Washing Machine Parts Co., 1375 Mission St. (3); Elec'l. Appl. Service, 236 Harriet St. (3); Angelis Sales & Service, 940 Mission St. (3); Accurate Appl. Co., 904 O'Farrell St.
San Diego: Washing Mach. Parts Co., 1743 India St.; Elec'l. Appl. Service, 3021 17th St. (2)
Oakland: Trayway Sales & Service, 5451 College Ave.
Denver: Niles Washing Machine Parts Co., 509 14th St. (2)
Sacramento: Al Bedard's Parts Supply, 1626 N. C St. (15); Finnestead's, 1308 J St.
Fresno: Buford's, 932 Van Ness Ave.
Los Angeles: Elec'l. Appl. Service, 726 W. Venice Blvd.; Washing Mach. Parts Co., 1241 S. Hope (15)
Portland: W. T. Dyke Co., 12 S. E. 28.
Seattle: Bon-Marche Co., Service Dept., 122 Terry, N.

LOVELL MANUFACTURING CO., Erie, Penn.
*(Washing machine wringer rolls and repair work)*
**Distributors:**
Denver: Ray Jones, 376 S. Broadway (9)
Los Angeles: Elec'l. Appl. Service, 726 W. Venice Blvd.
Portland: W. L. May Co., 215 N W. Park Ave.
Seattle: Appl. Parts & Serv. Co., 216 Stewart St.
San Francisco: Electric Appliance Service Corp., 236 Harriet St.
San Diego: Electric Appliance Service Corp., 302 17th St.
Boise: Perkins Appliance Shop, 1511 State St.
Salt Lake City: Apex Sales & Service, 171 E. Broadway
Denver: Geo. S. Conley, 731 15th St.

LUMIDOR CO. INC., 4801 E. 50th St., Los Angeles 11, Calif.

LUX CLOCK MFG. CO., Waterbury, Conn.
**Factory service only.**

LYON METAL PRODUCTS INC., Aurora, Ill.
**Branch offices at:**
Los Angeles: 3650 Union Pacific Ave. (23)
Portland, 418 S.W. Washington (4)
Spokane: 316 Eagle Bldg. (8)
Denver: 1300 E. Colfax Ave. (6)
San Francisco: 870 Market St. (2)
Seattle: 2nd and Yesler St.
Tucson: 1823 East 10th St.

MACARTHUR PRODUCTS INC., Springfield, Mass.
**Factory nearest source supply.**

MADE-RITE MFG. CO., 22 Elm St., Mansfield, Ohio.
(See Dominion Electric)

MAGNAVOX CO., Fort Wayne 4, Ind.
*(Magnavox radio phonograph; Illustravox Sound Slide Film units)*
**Service Stations: For Illustravox.**
San Francisco: A & B Radio Lab, 539 Gough St.
Los Angeles: Nielson & Nielsen, 1540 Glendale Blvd. (26)
Magavox dealers authorized to service Magnavox instruments

MAJESTIC ELECTRIC APPL. CO., 544 Natoma St., San Francisco, Calif.

MAJESTIC RADIO & TELE. CORP., 2600 W. 50th St., Chicago 32, Ill.
**Distributors:**
Albuquerque: Heaston-McCallister Co., 325 N. 3rd St.
Denver: The Parker Co., 1520 Wazee St.
Los Angeles: Roach-Driver Co., 1701 S. Grand Ave. (15)
Phoenix: Electrical Equipment Co., 424 N. Central Ave.
Portland: North Pacific Supply Co., Inc., 1218 N.W. Glisan
Salt Lake City: Arnspiger & Ostler Inc., 276 W. 1st St. So.
San Francisco: McCormack Co., 450 9th St. (3)
Seattle: North Pacific Supply Co. Inc., 201 West Lake N. (9)
Spokane: Prudential Distributors, S. 151 Stevens St.

MALLEABLE IRON FITTINGS CO. INC., Branford, Conn.
**Representatives:**
San Francisco: Waltham, DeWitt & Krusi, 632 Monadnock Bldg.
Los Angeles: Industrial Eng. & Equipment Corp., 708 Subway Terminal Bldg. (13)
Portland: William J. Cottrell, 309 S. W. 3rd Ave. (4)

MANNING, BOWMAN & CO., Meriden, Conn.
**Service Stations:**
Denver: Midwest Elec. Wiring Co., 328 W. Colfax Ave. (4)
Los Angeles: Motor & Machinists Supply, 230 S. San Pedro St.
San Diego: Zweiner Elec. Co., 1242 1st Ave.
San Francisco: Manning, Bowman & Co., 150 Post St. (4)
Portland: Morrison Elec. Supply, 1206 S. W. Washington St. (5)
Seattle: Appl. Parts & Service, 216 Stewart St.

MANTLE LAMP CO. OF AMERICA, 223 W. Jackson Blvd., Chicago 6, Ill. (As of May 1, 1949, names changes to Aladdin Industries, same address)

MARBRO LAMP, 1625 S. Los Angeles St., Los Angeles, Calif.

MARCO INDUSTRIES INC., 210 So. Clementine, Anaheim, Calif.

MARION ELEC. APPL.
(See Rutenber Elec. Co.)

MARKEL ELEC. PRODUCTS INC., 145 Seneca St., Buffalo, N.Y.
*(Heetaire electric heaters, lighting fixtures)*
**Service Stations:**
Seattle: J. M. Hooper, 222 Marion St. (4)
Portland: Morrison Electric Service Co., 5 S.W. Washington & 13th St.
Los Angeles: The Motor & Machinists Supply Co. (12)
San Francisco: M. C. Ross, 190 Gough St. (2)

MARLUN MFG. CO. INC., 37 E. 21st St., New York 10, N. Y.

MARQUETTE APPLIANCES INC., 307 E. Hennepin Ave., Minneapolis 14, Minn. Subsidiary of Marquette Mfg. Co., Inc.
*(Home freezers, refrigerators, hot water heaters, ranges)*

MARTIN-PARRY CORP.
(See Rexair Div.)

MASTER GRANDE WASHERS
(See Vidrio Products Co.)

MAYTAG CO., Newton, Iowa.
*(Maytag washers)*
**Distributors and Branch Offices:**
Portland: Maytag Northwest Co., 1136 N.W. Hoyt St. (9). (Wash., Ore., Idaho, Utah, western Nev.)
Los Angeles: Maytag West Coast Co., 1225 W. Ninth St. (15). (Calif., eastern Nev.)
Colorado Springs: Maytag Rocky Mt. Co. (Colo., Wyo., N.M., Ariz.)
Montana: The Maytag Co., 515 Washington Ave., N., Minneapolis, Minn.

McALLISTER-ROSS CORP., 135 S. La Salle St., Chicago 3, Ill.
*(McAllister "bagless" vacuum cleaners)*
**Distributors:**
Los Angeles: Kinney Bros., 200 North Ave. (18)
San Francisco: Schuyler-Wilson Co., 458 Merchandise Mart
Seattle: Poole Electric Co., 1116 4th Ave.
Portland: F. B. Connelly Co., 1233 N. W. 12th St. (9)
Spokane: Columbia Elec. & Mfg. Co., S. 123 Wall St.
Billings: Midland Implement Co.
Salt Lake City: Western Supply Co., 357 W. 2nd St. So.
Phoenix: Arizona Mercantile Co. (Household Appliance Division) Central at Jackson
Reno: Schuyler-Wilson Co., 458 Merchandise Mart

McGRAW ELECTRIC, Clark Div., 5201 W. 65th St., Chicago, Ill.; branch factory at 1055 W. 5th St., Azusa, Calif.
**Distributors:**
Phoenix: Appliance Distributors, 213 S. 11th Ave.
Los Angeles: J. N. Ceazan Co., 1700 So. Figueroa (1)
San Francisco: Thompson-Diggs Co., 1355 Market St.
San Diego: J. N. Ceasan Co., 1945 E. Harbor Drive (2)
Portland: Electrical Distributing Inc., 140 N.W. 14th Ave. (9)
Denver: Hendrie & Bolthoff Co., 1635 17th St.
Salt Lake City: Jackson Distributing Co., 115 S. W. Temple St. (1)
Seattle: Seattle Hardware Co., 501 First Ave. So.
Spokane: Spokane Paper & Stationery Co., 152 S. Jefferson St. (8)
Helena: D. N. Latus & Co., 103 E. 6th Ave.

McGRAW ELECTRIC CO., Toastmaster Products Division, Elgin, Ill.
*(Toastmaster)*
**Service Stations:**
Denver: E. S. Hawkins Elec'l. Service, 2929 E. 84th Ave. (6); Midwest Elec. Service Co., 1124-26 Santa Fe Drive
Los Angeles: K. E. Campbell Electric, 316 E. 3rd St. (13)
Portland: Bressie Elec. Co., 909 S. W. 5th Ave. (4)
Salt Lake City: Appliance Service Center, 57 Richards St. (1)
San Diego: J. F. Zweiner Elec'l. Co., 1242 1st Ave.
San Francisco: Radelfinger Bros., 544 Natoma St. (3)
Seattle: Appl. Parts & Service Co., 214 Stewart St. (1)
Spokane: Maxwell's Inc., 619 W. 1st Ave. (8)

MEADOWS CORP., 1954 S. 54th Ave., Chicago, Ill.
(See Hurley Machine Div.)

MELL-O-CHIME AND SIGNAL CORP., 119 S. Jefferson St., Chicago 6, Ill
*(chimes)*
**Repairs at plant: 564 W. Adams St., Chicago.**

MENASCO MFG. CO., 805 S. San Fernando Blvd., Burbank, Calif.
*(Electro-mite portable washer)*
**Discontinued manufacturing of portable washer, but maintain service station.**
Nat'l parts distributor: Washing Machine Parts Co., 1241 So. Hope St., Los Angeles 15.
**Service Stations:**
Phoenix: Appliance Service Co., 1161 E. Polk St.
Los Angeles: Washing Machine Parts Co., 1241 S. Hope St. (15)
San Diego: Washing Machine Parts Co., 1743 India St. (1)
San Francisco: Washing Machine Parts Co., 1375 Mission St.
Clovis, N.M.: R. V. Galloway Wshing Machine Co.
Portland: W. L. May Co. 215 N. W. Park Ave. (9)

MERIT-MADE INC., 33 Franklin St., Buffalo 9, N. Y.

MERRYWAY CO., Poughkeepsie, N. Y.
*(Merryway elec. food preparer)*
San Francisco: Dohrmann Hotel Supply Co., 984 Mission St. (3) (for Western states and Hawaii)

METAL WARE CORP., Two Rivers, Wis.
*(Empire and Empco domestic electric appliances)*
Seattle: Elec'l. Engineering Co., 110 Marion St. (4).
Spokane: R. T. Carr Sales Co., 919 W. First Ave.
Portland: Morrison Elec. Service, S.W. Washington at 13th (5).
San Jose: Gentury Elec. Co., 18 E. San Antonio St.
San Diego: J. F. Zwiener Elec Co., 1242 1st Ave.

MICAMOLD RADIO CORP., 1087 Flushing Ave., Brooklyn 6, N. Y.

MIDGET HEATER & SPECIALTY CO., 2801 Pacific Ave., Tacoma 2, Wash.
**Factory service only.**

M & J PROD. CO. INC., 3730 N. Southport Ave., Chicago 13, Ill.

MILLER CO., Meriden, Conn.
*(Lighting equipment)*

MILO MFG. CO., 2255 Bush St., San Francisco, Calif.

MIRACLE ELECTRIC CO., 36 S State St., Chicago 3, Ill.
*(small electric appliances)*
**Service Stations now being established.**

MITCHELL MFG. CO., Tru Ad Div., 1019 N. Madison St., Los Angeles, Calif.

MODERN APPLIANCE CO., 111 S. Ellsworth, San Mateo, Calif.

MONARCH MFG. CO., 2014 N. Major Ave., Chicago, Ill.

MONITOR EQUIPMENT CORP., Riverdale-on-Hudson, New York 63, N. Y.
*(Monitor home appliances)*
Distributors: (handle service and repair parts in West)
Los Angeles: Wilford Bros, Inc., 1226 So. Stanford Ave.
San Francisco: 1355 Market St. (3)
Salt Lake City: Stewart Distr. Co., 505 So. 1st. W.
Butte: Monitor Home Appl. Inc., 604 Utah Ave.
Phoenix: Western Sales Co., 1602 W. Jefferson
Colorado Springs: Colorado Springs Supply Co., 15-31 W. Cucharras
Portland: Home Appliance, 1501 N.W. Kearney

MOTOR PRODUCTS CORP., Deepfreeze Div., 2301 Davis St., North Chicago, Ill.
*(Deepfreeze industrial chilling equipment)*
(See Deepfreeze)

MOTOROLA INC., 4545 Augusta Blvd., Chicago 51, Ill.
*(Motorola Radio)*
**Distributors:**
Denver: Boyd Distr. Co., 20 W. 13th Ave. (4)
Portland: Eoff Electric Co., 509 N. W. 10th St.
Billings: Central Distr. Co., 3007 Montana Ave.
San Francisco: W. J. Lancaster Co. 25 California St.
Los Angeles: Kierulff and Co., 820 W. Olympic Blvd. (15) Western Auto Supply Co., 1100 S. Grand Ave. (54)
Seattle: Allison-Motorola Distr. Co., 620 Eastlake Ave. (9)
Phoenix: Radio Spec. & Appl. Corp., 401 W. Jackson St.
Salt Lake City: Salt Lake City Hdwe. Co., P. O. Box 510 (9)
Spokane: Tubbs Electric Co., 165 S. Post St. (8)

MURLIN MANUFACTURING CO., 5420-28 Paschali Ave., Philadelphia 43, Penn.
*(Marine and ornamental lighting)*
**Service and repair parts.**
Seattle: Allied Industries, 532 1st Ave., S. (4)
San Francisco: Allied Industries, 1135 Harrison St. (3)
Los Angeles: Allied Industries, 412 Seatan St.

MURPHY MFG. CO., 7405 Stony Island Ave., Chicago 49, Ill.

NASH-KELVINATOR CORP., 14250 Plymouth Rd., Detroit 32, Mich.
*(Kelvinator refrigerators, electric ranges, home freezers, com'l refrigerating equip., Leonard refrigerators, ranges, home freezers)*
Seattle: Nash-Kelvinator Sales Corp., 2819 Elliott Ave. (1)
Spokane: Nash-Kelvinator Sales Corp., 1023 W. Riverside Ave.
Portland: Nash-Kelvinator Sales Corp., 2133 N.W. York St.
Oakland: Nash-Kelvinator Sales Corp., 2325 E. 12th St. (1)
Los Angeles: Nash-Kelvinator Sales Corp., 1618 E. 7th St. (21)
Denver: Western Appl. Corp., 1147 Broadway (3)
Salt Lake City: Flint Distr. Co., 316 W. 2nd S. St.
Phoenix: Elec'l Equipment Co. of Ariz., 424 N. Central St.
Billings: Taylor Refrigeration & Appl. Co., 2714 Montana Ave.
El Paso: Car Parts Depot Inc., 712 Texas St.
Albuquerque: Charles Ilfeld Co., 200 N. 1st St.
Roswell, N. M.: Wilmot Hdwe. Co., 115 N. Main St.

NATIONAL ACOUSTIC PRODUCTS, 120 N. Green St., Chicago 7, Ill.
*(amplifiers, electronics equip., toasters, record changers)*
**Factory service only.**

NATIONAL DIE CASTING CO., Toughy Ave. at Lawndale, Chicago 45, Ill.

NATIONAL ENAMELING AND STAMPING CO., Milwaukee, Wis.
*(Nesco products)*
**Service Stations:**
Seattle: J. M. Hooper Electric Co., 222 Marion St.
Portland: Bressie Elec. Co., 909 S. W. 5th St.
San Francisco: Will M. Aronson Co., 666 Howard St.
Long Beach: Gulbransen Appliance Service, 340 E. 4th St.
Los Angeles: Elec'l. Appl. Serv. Co., 726 W. Venice Blvd.
San Diego: Electrical Appliance Service Corp., 302 17th St.
Denver: Midwest Elec. Service Co., 1124 Santa Fe Drive
Salt Lake City: Appliance Service Center, 57 Richards St.
El Paso: Wayne M. Tinkler Co., 813 Cedar St.
Spokane: Appliance Parts & Service, W. 609 Trent Ave.
Tacoma: Ajax Electric Co., 747 Fawcett Ave.
Sacramento: Lamco Electric Co., 1415 21st St.
Boise: C. A. Bodily Radio Service, 1603 N. 13th St.
Billings: Billings Electric Supply Co., 208 N. 29th St.
Butte: Radio Engineering & Service, 219 W. Park St.

NATIONAL SPECIALTIES CO., Howell and Tyler St., Fort Wayne, Ind.

NATIONAL STAMPING & ELEC. WORKS, 3250 W. Lake St., Chicago 24, Ill.
**Service Stations:**
Los Angeles: Elec. Lighting & Supply Co., 216 W. 3rd St.
San Francisco: Byington Elec. Co., 1809 Fillmore St.
Kellogg, Idaho: Kellogg Elec. Co.
Wallace, Idaho: Kellers Elec. Co., 517 Cedar St.
Butte: Radio Eng. & Serv., 219 W. Park St.
Eugene: C & S Electric, 1070 Williamette
Portland: Eureka Electric Co., 510 S.W. Salmon St.
Salt Lake City: Eureka Appliance Co., 177 E. Broadway
Seattle: Appl. Parts & Serv. Co., 214-216 Stewart St.
Spokane: Appl. Parts & Serv. Co.
Tacoma: Ajax Electric Co., 747 Fawcett Ave.

NATIONAL STEEL CONSTRUCTION CO., 500 Myrtle St., Seattle 8, Wash.
*(National and Columbia elec. water heaters)*
**Factory, jobbers and dealer service**

NAXON UTILITIES CORP., 3600 Touhy Ave., Chicago 45, Ill.
*(Naxon, Beanery, Vitamin Crock Cooker, Autogriddle, Lustro-griddle, portable elec. washers)*
**Service Stations:**
Los Angeles: Elec'l. Appl. Service Corp., 726 W. Venice (18)
San Francisco: Elec'l. Appliance Service Corp., 236 Harriet St.
San Diego: Elec'l Appliance Service Corp., 302 17th St.

NESCO PRODUCTS (See Nat'l Enameling & Stamping)

NEWARK APPLIANCE CORP. INC., 92 S. Sixth St., Newark, N. J.

NEW HOME SEWING MACHINES (See Free Sewing Machine Co.)

NINETEEN HUNDRED CORP., St. Joseph, Mich.
*(Washers—Whirlpool, Niagara, Cass, Cataract; Ironers—Whirlpool)*
**Distributors:**
San Francisco: H. S. Basford Co., 425 2nd St.; Elec. Appl. Service Corp., 236 Harriet St.
Los Angeles: Elec. Appl. Service Corp., 726 W. Venice Blvd.; Graybar Elec. Co. Inc., 201 Santa Fe Ave.
San Diego: Elec. Appl. Service Corp., 302 17th St. (2)
Portland: W. L. May Co., 215 N.W. Park Ave.
Spokane: Columbia Elec. & Mfg. 123 Wall
Seattle: Robinson Dist. Corp., 121 Yale Ave. No.; Appliance Parts & Service, 214 Stewart St.
Salt Lake City: A-1 Master Electric, 47 E. 4th St.
Denver: Ray Jones, 376 S. Broadway; Home Appliance Dist. Co., 1115 Broadway.

NOBLITT-SPARKS INDUSTRIES INC., Columbus, Ind.
*(Arvin Products)*
**Distributors:**
Oakland: State Elec. Supply Co., 241 10th St.
Bakersfield: Gough Industries Inc., 613 19th St.
Los Angeles: The Corwin Co., 1525 S. Flower St.
San Diego: Gough Industries Inc., 3255 5th Ave.
Portland: Marshall-Wells Co., 1420 N. W. Lovejoy.
Spokane: Marshall-Wells Co., 157 S. Howard St.

Salt Lake City: Bonneville-Western Inc., 32 Richards St.
Boise: Bertram Motor Supply Co., 814 Jefferson St.
Phoenix: Albert Mathias Co., 305 S. 2nd Ave.
El Paso: Friedman-Bendalin Co.
Denver: Tom Killian Co., 1236 Broadway
Billings: Marshall-Wells Co.

NOMA ELEC. CORP., 55 West 13th St., New York City, N. Y. (See Estate Heatrola Division)

NOMA INDUSTRIES INC., 60 Federal St., San Francisco, Calif.

NORGE DIVISION, Borg-Warner Corp., Sherman Blvd., Plants Muskegon Hts., Herrin, Ill., Effingham, Ill., Chatanooga, Tenn.
*(electric refrig., ranges, washers, home freezers, home heaters, water heaters, refrigerator specialties)*
**Distributors and service:**
Los Angeles: Leo J. Meyberg Co., 2027 S. Figueroa St. (7)
San Francisco: Leo J. Meyberg Co., 70 10th St. (1)
Portland: F. B. Connelly Co. of Oregon, 1233 N. W. 12th St. (9); W. G. Carey Co., 20 S. E. 8th Ave.
Seattle: F. B. Connelly Co., 1015 Republican St. (9); Pacific Utilities Co., 125 1st Ave. N.
Spokane: Columbia Elec. & Mfg. Co., S. 123 Wall St., P.O. Box 1441 (8)
Boise: Salt Lake Hdwe. Co., 401 S. 8th St.
Reno: Sierra Appl. Co., 106 Sierra St.
Albuquerque: Joe Heaston-McCallister Co., 325 N. 3rd St.
Silver City, N. M.: Home Furniture Co., 202 N. Bullard St.
Denver: Auto Equip. Co., 14th & Lawrence St. (17)
Billings: Midland Implement Co. Inc., 2308 Montana Ave., P.O. Box 2113
Salt Lake City, Salt Lake Hdwe. Co., 105 N. 3rd St. (9)
Phoenix: Standard Equipment Co., 125 N. 1st St.

NORTH AMERICAN ELEC. LAMP Co., 1014 Tyler St., St. Louis 6, Mo.

NORTH AMERICAN PROD. CO. INC., **Wayne, Mich.**

NUSONIC CORP., **230 Fifth Ave.**, New York City, **N. Y.**

NUTONE INC., Chicago Merchandise Mart, Chicago 54, Ill. Factory Repair Dept., Cincinnati, Ohio
*(Door chimes, transformers, push buttons, signal devices)*
**Representatives:**
Los Angeles: Pacific Coast Headquarters, 919 E. 31st St. (11)
Seattle: Julian Wolf, Terminal Sales Bldg. (1)

OASIS ELEC. WATER COOLER (See Ebco Mfg. Co.)

OHIO ELECTRIC CO., 629 9th Ave., New York 19, N. Y.
*(Ohio Tuec Sanitator, DeLuxe cylinder vacuum cleaners, Handette & DeLuxe hand vacuum cleaners; also parts and repairs for Ohio models, 4, 5, 6 vacuum cleaners, Sweeper-Vac repair and parts)*
**Factory service only.**

OLYMPIC RADIO & TELE. INC., 3401 38th Ave., Long Island City (1) N. Y.

ONE MINUTE WASHER CO., Kellogg, Iowa
*(One Minute washer)*
Seattle: Appl. Parts & Service Co., 214 Stewart St. (1)
Portland: W. L. May Co., 122 S. W. 5th Ave. (4)
Los Angeles: Washing Mach. Parts Co., 1241 S. Hope St. (15)
Denver: Ray Jones Washing Mach. Parts Co., 376 S. Broadway (9)
Salt Lake City: Claude Dodge, 153 Broadway
San Francisco: Washing Mach. Parts Co., 1321 Mission St.
San Diego: Washing Mach. Parts Co., 1743 India St.

OPERADIO MFG. CO., St. Charles, Ill.

PACIFIC ELECTRICORD CO., 9304 Santa Monica Blvd., Beverly Hills, Calif.

PACIFIC ELECTRONICS, 1011 1st Ave., Spokane, Wash.

PACKARD-BELL CO., 3443 Wilshore Blvd., Los Angeles 5, Calif.

PACKARD ELECTRIC SHAVER (See Lektro Products)

PEERCO INC., Park Ridge, Ill.

PEERLESS BUILT-IN-FIXTURE CO., 2608 San Pablo Ave., Berkeley, Calif.

PEERLESS ELEC. CO., 740 West Market St., Warren, Ohio.
**Factory supply:**

PEERLITE MFG. & SUPPLY CO., 178 5th St., San Francisco, Calif.

PERFECTION STOVE CO., 7609 Platt Ave., Cleveland 4, Ohio.

PHILCO CORP., Philadelphia 34, Penn.
*(Philco refrigerators, radios, etc.)*
**Distributors:**
Los Angeles: Gough Industries Inc., 819 E. 1st St.
Long Beach: Gough Industries Inc., 2228 Atlanta Ave.
Santa Barbara: Gough Industries Inc., 404 State St.
San Diego: San Diego Standard Elec. Corp., Front & Ash St.
San Francisco: Thompson & Holmes Ltd., c/o Merchandise Mart, 1355 Market St.
Fresno: Devlin-Drew Co., 718 F St.
Bakersfield: Devlin-Drew Co., Calif. & Oak St.
Reno: Saviers Elec'l. Prod. Corp., 42 W. 2nd St.
Portland: Appl. Wholesalers of Oregon, 600 N. W. 14th Ave.
Seattle: Radio Television & Appl. Inc., 510 Westlake N.
Phoenix: Al Jennings Co., 607 W. Washington St., P.O. Box 1689
Spokane: Tull & Gibbs Inc., 705 1st Ave.
Salt Lake City: Strevell-Paterson Hdwe. Co., 126 S. W. Temple St.
Butte: Ellis Paint Co., 64 W. Park St.
Billings: Farm & Home Appl. Co.
Denver: Walter Slagle & Co., 725 S. Broadway
Cheyenne: Chief Appl. Corp., 1215 W. Lincoln Highway, P.O. Box 956
Albuquerque: Momsen-Dunnegan-Ryan Co., 408 N. 1st St.

PORTABLE ELECTRIC HEATER CO., 424 Benton St., Detroit 1, Mich.
*(portable electric motor driven heater fans, housing fans, furnace booster fans)*
**Factory service only.**

PORTABLE ELEVATOR MFG. CO., Refrig. Division, Bloomington, Ill.

POULSEN & NARDON INC., 2665 Leonis Blvd., Los Angeles 11, Calif.

PRECISION SPECIALTIES, 210 N. Western Ave., Los Angeles 4, Calif.

PREMIER VACUUM CLEANER Division, Appliance and Merchandise Dept., General Electric Co., 1285 Boston Ave., Bridgeport 2, Conn.
*Premiem vacuum cleaners, formerly Magic-Aire now discontinued)*
**Repair parts distributors:**
San Francisco: Washing Mach. Parts Co., 1375 Mission St. (3)
Portland: Stark's Vacuum Cleaner Sales & Service, 512 E. Burnside St.
**Distributors:**
San Francisco: H. R. Basford Co., 425 2nd St. (7)
Casper: Casper Supply Co., 444 S. Center St.
Salt Lake City: Flint Distr. Co., 316 W. 2nd S. St.
Los Angeles: Gough Industries Inc., 819 E. 1st St.
Great Falls: Great Falls Paper Co., 420 2nd St. S.
Denver: Radio & Appliance Distrib. Co., 1634 18th St. (2)
Portland: Sunset Electric Co., 1035 N. W. 14th St. (9)
Seattle: Sunset Electric Co., 300 Westlake N.
El Paso: W. G. Walz Co., 500 San Francisco St.

PREVORE ELEC. MFG. CORP., Fulton St. at Clinton Ave., Brooklyn 16, N. Y.
**Factory service only.**


# FAVORITES EVERYWHERE
## with proven records of SALES and SERVICE!

Nalco Infra-Red Lamps. Designed especially for industrial drying and baking—with long-lasting carbon filaments. Available in either inside aluminumed or clear glass types.

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Nalco Candle Flame Lamp. Unique in shape, they give soft, diffused glow to enhance the beauty of fixtures, etc.

Nalco Heavy Duty Carbon Lamps —assure long life in severe service. Available in many standard and special shapes, colors and sizes.

*Send for literature and price list*

Western Representatives: Fred G. Chemnitz, 1310 S. W. Alder, Portland 5, Ore. F. J. Airey Co., 1513 S. Mateo, Los Angeles 21, Calif.

NALCO INFRA-RED DRITHERM

**NORTH AMERICAN** *Electric Lamp Co.*

1036 TYLER STREET • ST. LOUIS 6, MO.


PRIME MFG. CO., 1669 S. First St., Milwaukee, Wis.
**Service Stations:**
San Francisco: E. B. Cook Co., 1063 Howard St.
Portland: Cascade Supply Co., 208 S.E. Hawthorne Blvd.

PROCTOR ELECTRIC CO., 3rd St. and Hunting Park Ave., Philadelphia 40, Penn.
*(Proctor automatic electrical appl.)*
Phoenix: Vinson-Carter Elec. Co., 325 4th Ave.
Tucson: Grabe Electric Co., 26 E. Congress St.
Bakersfield, Calif.: Urner's Appl. Center, 212 21st St.
Fresno: L. F. Ballmor, 1134 Echo
Long Beach: Dean & Hoffman, 221 American Ave.
Los Angeles: Elec'l. Appl. Service, 726 W. Venice Blvd.; Calif. Elec. Service Sta., 832 S. Alvarado
Oakland: Paul Morrison, 201 12th St. (12)
Sacramento: Lam-Co. Electric, 1415 21st St. (14)
San Diego: J. F. Zwiener Elec. Co., 1242 1st Ave.; Elec'l Appl. Service Co., 302 17th.
San Francisco: (5); Elec'l Appl. Service Corp., 236 Harriet St.
Santa Barbara: Thorne Electric Co., 9 W. Anapuma St.
Stockton: The Electric Shop, 41 N. American St.
Colorado Springs: Modern Service Co., 10 & 12 E. Colorado Ave.
Denver: Midwest Elec. Wiring Service, 1124 Santa Fe Drive
Great Falls: Montana Electric & Appl. Co., 112 Central Ave.
Billings: Billings Elec. Supply Co., 214 N. 30th St.
Butte: Radio Eng. & Service, 219 W. Park St.
El Paso: Wayne M. Tinkler & Co., 813 Cedar St.
Salt Lake City: Appliance Service Center, 57 Richards St. (1)
Seattle: Howell's Electric, 522 Union St.
Reno: Moltzen & Fitch Elec. Co., 275 S. Virginia St.
Eugene: C & S Elec. Co., 1070 Williamette St.
Klameth Falls: Leach Service Co., 123 S. 6th St.
Medford: Trowbridge & Flynn Elec. Co., 214 W. Main St.
Portland: Bressie Elec. Co., 909 S. W. 5th Ave.
Spokane: Maxwells Inc., 1st & Wall St.
Tacoma: Ajax Elec. Co., 747 Fawcett Ave.
San Jose: D. & S. Repair Service, 310 W. Santa Clara St.
Great Falls: Montana Electric & Appliance Co., 112 Central Ave.

PRYNE & CO. INC., 140 N. Towne Ave., Pomona, Calif.

QUILLEN BROS. REFRIG. CO., 1639 Lafayette Road, Indianapolis, Ind.
**Distributors:**
Sherman Oaks, Calif.: Hanmar Co., Inc., 14255 Ventura Blvd. (for southern California)

RADIA HEATER & FANS (See Shepler Mfg. Co.)

RADIANT LAMP CORP., 300 Jelliff Ave., Newark 8, N. J.

RADIO CORP. OF AMERICA: RCA Victor Div., Camden, N. J.
*(Radio, television, tubes, records, electronics, Victrolas)*
**Service Stations:**
Fresno: Jack C. Arbuckle, 1427 Broadway
Portland: Bargelt Supply, 1131 S. W. Washington (5); Harper-Meggee Inc., N. W. 15th & Irving St. (9)
Manhattan, Mont.: Camp Bell Films

Santa Barbara: Channel Radio Supply Co., 434 State St.
Boise: Craddock's Radio Supply, 1522 State St.
Pasadena: Dow Radio Supply Co., 1760 E. Colorado St.
*(Factory service only)*
Stockton: Carter W. Dunlap Wholesale Radio Co., 31 S. Aurora St.
Salt Lake City: Glenn Earl Inc., 157 W. 2d S.; Standard Supply Co., 531 S. State St.
Seattle: Harper-Meggee Inc., 960 Republican St. (9); Radio Prod. Sales Co., 1214 1st Ave.; Herb E. Zobrist Co., 2125 Westlake Ave. (1)
Spokane: Harper-Meggee Inc., 734 Division St. (8); Herb E. Zobrist Co., 121 S. Monroe St.
Hollywood: Hollywood Radio Supply Inc., 5521 Hollywood Blvd. (28)
Sacramento: E. M. Kemp Co., 1115 R St.; Sacramento Elec. Supply Co., 711 Capitol Ave. (14)
Los Angeles: Leo J. Meyberg Co., 2027 S. Figueroa St. (7); Radio Equip. Distr., 709 S. Main St.; Radio Specialties Co., 1956 S. Figueroa St. (7); Radio Television Supply Co. Inc., 1509 S. Figueroa St. (15); Shelley Radio Co., 2008 Westwood Blvd. (25); Universal Radio Supply Co., 1404 Venice Blvd.; United Radio Supply Co., 1356 S. Flower St.
San Francisco: Leo J. Meyberg Co., 70 10th St. (1); San Francisco Radio Supply Co., 1284 Market St.; Wholesale Radio & Elec. Supply Co., 140 9th St.; Zack Radio Supply Co., 1426 Market St.
Las Vegas: Nevada Radio Supply Co., 1400 S. Main St.
Billings: Northwestern Auto Supply Co., 420 N. Broadway
San Jose: Frank Quement, 156 W. San Fernando St.
Phoenix: Radio Parts of Arizona, 36 W. Madison St.
Santa Ana: Radio & Television Equip. Co., 207 Oak St.
Bakersfield: Valley Radio Supply, 716 Baker St.
Oakland: E. C. Wenger Co., 1450 Harrison St.
San Diego: Western Radio & Elec. Co., 1415 India St. (1)
**Television:**
Los Angeles: RCA Service Co., 1037 No. Orange Dr.

RADIO PROCESS CO., 7618 Melrose Ave., Los Angeles 46, Calif.

RADIRON CORP., Miamisburg, Ohio.
**Factory Service Only**

RAILLEY CORP., 12910 Taft Rd., Cleveland, Ohio.

RAINIER ELECTRIC OVEN & ENG. CORP., 1419 Jackson St., Seattle 44, Wash.
**Factory service.**

RAVENNA METAL PRODUCTS CO., 6518 Ravenna Ave., Seattle 5, Wash.
**Service Stations:**
Seattle: Bean Elec. Co., 1014 1st Ave. S.
Spokane: Lumberman's Supply Corp., E. 3002 Mission Ave.
Portland: Elec'l Distr. Inc., 525 N. W. 10th Ave.

RAY LITE GLASS CO., 3172 Santa Ana St., South Gate, Calif.

RECO FOOD MIXERS
(See Reynolds Elec. Co.)

RECORD-O-VOX INC., 203½ S. Spring St., Los Angeles, Calif.

RECORDIO, RECORDIA, RECORDIO POINTS (See Wilcox-Gay Corp.)

RED SEAL APPLIANCE CO.
(See Samson United Corp.)

RED SPOT ELEC. CO., 7405 S. Tacoma Way, Tacoma 9, Wash.

REGINA CORP., Rahway, N. J.
*(Vacuum cleaners)*
**Representative:**
Los Angeles: J. A. Scharfe, 520 W. 7th St. (14)

RELIANCE AUTOMATIC LIGHTING CO., 1927 Mead St., Racine, Wis.

REMINGTON RAND INC., Electric Shaver Division (formery General Shaver Div.), 2 S. Main St., Bridgeport 2, Conn.
*(Remington Rand shaver)*
**Remington Rand service stations:**
San Francisco: 41 First St.
Oakland: 2035 Franklin St.
Fresno: 1242 Van Ness Ave.
Sacramento: 1107 J St.
Los Angeles: 711 S. Olive St.
Hollywood: 1656 N. Cherokee Ave.
San Diego: 926 C St.
Long Beach: 238 First St. (2)
Portland: 525 Pine St.
Seattle: 1910 Fourth Ave.
Tacoma: 1003 A St.
Spokane: W. 916 Riverside
Boise: 609 Bannock St.
Salt Lake City: 177 E. 2nd St.
Tucson: 307 E. Congress St. (Agt.)
Phoenix: 128 S. Central Ave. (Agt.)
Albuquerque: 221 W. Copper Ave.
Denver: 1525 Arapahoe St.

REMLER CO. LTD., 2101 Bryant St., San Francisco, Calif.

REVELATION CO., Div. of Interstate, 2600 W. Imperial Highway, El Segundo, Calif.

REVERE CLOCK CO., McMillan and Dover, Cincinnati, Ohio.
*(Mantel chime clocks, tubular chiming floor clocks)*
**Service Stations:**
Sacramento: Lam-Co Electric Co., 1415 21st St.
San Francisco: Wm. Herbst & Co., 209 Post at Grant
Los Angeles: Calif. Elec. Service Station, 1518 W. 7th St.
San Diego: The Clock Shop, 518 Granger Bldg.
Portland: O. B. Swearingen, 316 Panama Bldg.
Seattle: Clock Shop, 325 Green Bldg.
Salt Lake City: Time & Instrument Co., 57 Richards St.
Phoenix: Smith's Clock Shop, 1512 N. 7th Ave.
Denver: Midwest Electric Service Co., 1124-26 Santa Fe Drive

REXAIR DIVISION, MARTIN-PARRY CORP., P.O. Box 964, Toledo, Ohio
*(Rexair cleaner and conditioner)*
All Rexair branch offices handle service

REYNOLDS ELECTRIC CO., 300 River Rd., River Grove, Ill.
*(Reco food mixers, vegetable peelers, choppers, slicers, air circulators)*
**Factory service only.**

RITTENHOUSE CO. INC., THE, Honeoye Falls, N. Y.
*(Electric door chimes, transformers)*
**Factory service only.**

ROBERTS & MANDER CORP., 237 Jacksonville Rd., Hatboro, Pa.
*(Quality gas and electric ranges, steel kitchen cabinets and sinks)*
**Representatives:**
San Francisco: F. S. Lodge, 1355 Market St. (3)
Los Angeles: M. F. Boss, 2011 E. 25th St. (11)

ROPER, GEO. D., CORP., Rockford, Ill.

ROYAL MASTER APPLIANCE CO., 230 Fifth Ave., New York City, N. Y.

ROYAL VACUUM CLEANERS
(See Geier Co.)

ROZETT, I. R. and ASSOCIATES, 1405A Merchandise Mart, Chicago 54, Ill.

RUSTIC CRAFTS CO., INC., 29 Humphrey St., Englewood, N. J.
**Representative:**
San Francisco: A. C. Maryon Co., Market at 10th St.
Billings: P. P. Sparling, 204 Ave. F.

RUTENBER ELECTRIC CO., Marion, Ind.
*(Marion household servants, elec. heating & cooking appl., elec. ranges)*
**Distributors:**
Portland: Foreman Distributing Co. of Portland, 110 S. E. Alder St.
Seattle: Globe Elec. Co., 307 1st Ave. S.
Salt Lake City: Western Supply Co., 357 W. 2d St.; W. E.
Phoenix: Arizona Mercantile Co.
Denver: Finch-Ernest Corp., 900 Speer Blvd (4)
Los Angeles: Ironers Inc., 121 So. Alameda (12)

RUUD MFG. CO., 2934 Smallman, Pittsburgh (1), Pa.
**Distributors:**
San Francisco: H. R. Basford Co., 235 15th St.
Portland: Alvin R. Bravender, 125 N. W. 5th St. (9)
Kansas City: Elmer W. Cone Co., 609 E. 11th St. (6) (for Utah, Colo., Wyo.)

SAFE-FLEX
(See Samson United Corp.)

SAFETY ELEC. CO., 53 W. Jackson Blvd., Chicago 4, Ill.

ST. CLAIR ELEC. PROD. CO., P.O. Box 60, St. Clair, Mich.

SAMSON UNITED CORP., — Red Seal Appl. Corp., 1700 University Ave., Rochester 10, N. Y.
*(Samson, Red Seal, Safe-Flex)*
**Service Stations:**
Denver: Midwest Elec. Wiring Co., 1124-26 Santa Fe Drive
Salt Lake City: Time & Instrument Co., 57 Richards St.
Los Angeles: Florence Service Station, 767 E. Pico Blvd.
San Diego: Elec'l. Appl. Service Corp., 302 17th St.
San Francisco: P & D Appliance, 1414 34th Ave.
Seattle: J. M. Hooper Elec. Co., 222 Marion St.
Portland: Bressie Elec. Co., 909 S. W. 5th.

SAVAGE ARMS CORP., Chicopee Falls, Mass.
**Service Stations:**
Denver: Ray Jones Washing Machine Parts & Repair Co. (9)

SAVE ELEC. CORP., 615 Front St., Toledo 5, Ohio.

SCHICK SERVICE INC., 45 Garden St., Stamford, Conn.
**Service Stations:**
Los Angeles: 443 S. Spring St. (13)
San Francisco: 787 Monadnock Bldg. (5)
Portland: 1134 American Bank Bldg., 621 S. W. Morrison St. (5)
Seattle: 312 Republic Bldg. (1)
Denver: 501 Colorado Bldg. (2)

SCOTT & FETZER CO., W. 114th and Locust Ave., Cleveland 2, Ohio
*(Kirby home renovation system)*
District office: 420 N. Broadway, Portland 12, Ore. Henry Reznichek, district representative
**Distributors:**
Seattle: Kirby Co. of Seattle, 1829 Boren Ave. (3)
Spokane: Kirby Vacuum Cleaner Co., 513 Metals Bldg.
Tacoma: Kirby Co. of Tacoma, 3521 6th Ave.
Walla Walla: Kirby Co. of Walla Walla, 1207 Figueroa St.
Salt Lake City: Towler Distr. Co., 1628 S. 3rd E. St.
Idaho Falls: Kirby Co. of E. Idaho, 240 S. Water Ave.
Great Falls: Kirby Vacuum Cleaner Co., P. O. Box 1484.
Bellingham: N. W. Kirby Co., 1727 Commercial St.
Portland: Kirby Co., 2754 N. E. Broadway (12)
Cheyenne: Kirby Co. of E. Wyoming, 515 E. 3rd St.

SCOVILL MFG. CO.
(See Hamilton Beach Co.)

SEEGER REFRIGERATION CO., Evansville, Ind.
Formerly Sunbeam Elec. Mfg. Co.
*(Coldspot Electric Refrigerator)*
Serviced through Sears, Roebuck & Co. stores exclusively

SENTINEL RADIO CORP., Evanston, Ill.
*(Sentinel radios and television sets)*
**Distributors:**
Los Angeles: E. J. Jordan & Co., 117 N. Robertson
San Francisco: Steinau-Glaser Co., 324 Mission St.
Denver: Interstate Radio & Supply Co., 1639 Tremont Place; Hassco Inc., 1745-61 Wazee St.
Portland: F. B. Connelly Co. of Oregon, 905 N. W. 12th St.
Seattle: Washington Distributors, 115-117 Madison St. (4)
Pocatello: Billmeyer's, 240 S. Arthur St.
Billings: Montana Elec. Supply Co., P.O. Box 1323.
Albuquerque: J. Korber & Co., Dept. No. 2

SERVEL INC., Evansville, Ind.

SETH THOMAS CLOCKS, Thomaston, Conn.
*(Seth Thomas clocks)*
San Francisco: Schloss Mfg. Co., 540 Mission St. (5).

SHEPLER MFG. CO., 1312 Sheffield St., N. S., Pittsburgh, Pa.
*(Radia heaters and fans)*
Los Angeles: Elec. Lighting Supply Co., 216 W. 3rd St. (13).

SIGHT LIGHT CORP., Deep River, Conn.

SIGNAL ELECTRIC MFG. CO., Menominee, Mich.
*(Electric fans, pedestal fans, electric drills)*
**Factory service only.**

SILENT SIOUX OIL BURNER CORP., Orange City, Iowa.

SILEX CO., Hartford 2, Conn.
*(Silex coffee maker, Duolectric steam iron)*
**Service Stations:**
Seattle: Appliance Parts & Service Co., 214-216 Stewart St.
Spokane: Appliance Parts & Service Co., W. 609th at Trent Ave.
San Francisco: Will M. Aronson, 666 Howard St.
Portland: Morrison Elec. Co., 1206 S. W. Washington at 13th (5)

SIMPLEX IRONER (See American Ironing Machine Co.)

SINGER SEWING MACHINE CO., 149 Broadway, New York, N.Y.
Singer Household Iron Serviced and repaired by any local Singer Sewing Center.

SMITH, A. O. CORP., 3533 N. 27th St., Milwaukee 1, Wis.

SMITHway Products
West Coast branch: 1637 N. Spring St., Los Angeles, Calif.
Central branch and Central Service Div. Headquarters: 8312 S. Chicago Ave., Chicago (Serves Mexico and Colorado)
SMITHway water heater distributors:
Phoenix: Arizona Hardware Co., First and Jackson St.
Sacramento: Dalco Appliance Co., 6th and Que St.
San Francisco: Dalco Appliance Co., 7th and Townsend St.
Denver: Peerless Colorado Co., 755 So. Broadway
Great Falls: Great Falls Paper Co., P. O. Drawer 271
Roswell, N. M.: Sacra Equipment Co.
Portland: Distributors Inc., 725 N. W. Flanders St.
Seattle: Distributors Inc., 400 Ninth Ave.
Spokane: Distributors Inc., 1654 So. Maple St.
Cheyenne: Ranchers Gas & Supply Co., 1712 Carey
Worland, Wyo.: Big Horn Bu-Pre Gas Co.

SMITH, F. A. MFG. CO. INC., (See FASCO Industries Inc.)

†SON-CHIEF ELECTRICS INC., Winsted, Conn.
*(Son-Chief, Speed-Master, Speed-O-Matic appliances)*
Seattle: J. M. Hooper Elec. Co., 222 Marion St.
San Francisco: Will M. Aronson, 955 Folsom St. (7).
Los Angeles: California Electric Service Station, 1518 W. 7th St.
Portland: Morrison Electric Co., Washington at 13th.

SOUTHERN HEATER CO., P.O. Box 629, Compton, Calif.

SPARKS-WITHINGTON CO., Jackson, Mich.

SPEED-MASTER & SPEED-O-MATIC (See Son-Chief Electrics, Inc.)

SPEED QUEEN WASHERS (See Barlow & Seelig Mfg. Co.)

SPEEDWAY INC., 1834 So. 52nd Ave., Cicero, Ill.
**Parts distributor:**
Oakland: United Automotive Service, 1238 9th Ave.

SPERTI FARADAY INC., Adrian, Mich.
*(Plugmaster, bells, buzzers, horns, chimes, paging and signaling devices and systems for hospitals, schools, retail stores, industry)*
**Western Representatives:**
San Francisco: Chas. A. Meier, 1473 Harrison St.
Los Angeles: P. W. Cook, 912 E. 3rd St.
Salt Lake City: Leonard Slusser, 318 Dooly Bldg.
Denver: Glenn B. Gaer, 107 E. Colfax
Phoenix: Wm. Benndorf, 548 W. Jackson
Seattle: W. W. Wheat & Assoc., 50 First Ave. So.

SPRINGACTO IRON CORDS (See Wasge Mfg. Co.)

STANDARD ELECTRIC TIME CO., 89 Logan, Springfield, Mass.

STAR MFG. CO. Div. of Hercules Steel Products Corp., 6300 St. Louis Ave., St. Louis, Mo.
*(electric appliances)*
Parts available through dealers

STEAM-O-MATIC, Waverly Products Co., Bridgeport, Conn. (See Waverly Products)

STEEM ELEC. CORP., 3456 S. Grand Ave., St. Louis 18, Mo.

STEIGER & KERR STOVE FOUNDRY CO., Irvington, Calif.

STERLING APPLIANCES (See Chicago Electric Mfg. Co.)

STERN-BROWN INC., 42-24 Orchard St., Long Island City, N. Y.
*(Superstar small appliances)*
Seattle: Sound Electric Co., 311 Madison St. (4).
San Francisco: Electrical Appliance Service Corp., 236 Harriet St.
San Diego: Electrical Appliance Service Corp., 302 17th St.
Los Angeles: Elec'l. Appl. Service Corp., 726 W. Venice Blvd. (15).
Salt Lake City: Wolters Elec. Co., 238 S. State St.

STERRO WASHERS (See Vidrio Products Co.)

STEWART-WARNER CORP., 1826 Diversey Parkway, Chicago 14, Ill.
(See also Admiral Corp.)
*(Radios, phonographs, television)*
**Distributors:**
*(Provides parts and service for conventional radio and television receivers)*
Los Angeles: Sherman, Swenson & Associates, 2436 E. 8th St.
Eugene: Graybar Elec. Co. Inc., 2180 W. 6th Ave.
Portland: Graybar Elec. Co. Inc., 809 N.W. Flanders
Seattle: Graybar Elec. Co. Inc., King and Occidental Sts.
Spokane: Graybar Elec. Co. Inc., S. 152 Post St.
Tacoma: Graybar Elec. Co. Inc., 2112 A St.
Butte: The Treasure State Gas & Electric Co., 827 So. Montana St.
Great Falls: The Treasure State Gas & Electric Co., 15th St. N. and Smelter Rd.
Salt Lake City: Graybar Elec. Co., 245 So. First West St.
Boise: Graybar Elec. Co., 14th & Idaho Sts.
Phoenix: Arizona Mercantile Co., 10 E. Jackson
Reno: Distributor Associates, Div. of Bender Warehouse Co., P.O. Box 1108
Albuquerque: Charles Lifeld Co., 210 N. First St.
Denver: Ralph Olsen Sales Co., 30 W. 13th Ave.
**Service Stations:**
*(Provides parts and service for television receivers only)*
Long Beach: Advanced Radio, 1827 Santa Fe Ave. (10)
Los Angeles: Los Angeles Radio & Sound Maintenance, 509 So. Indiana St. (33); Ionic Equipment Co., 1705 No. Kenmore
San Bernardino: Wagoner's Radio & Television Service, 108 E St.
Beaumont: Summit Radio Service, 595 E. 6th St.
Corona: Buchanan's, 420 Main St.
Oakland: Duffey's Radio Service Center, 1129 Clay St. (7); Winsby Fleming Radio Service, 2573 94th Ave.
Oxnard: Hoff & Syvertsen, 308 So. Fifth St.
Sacramento: Radio Center, 1815 K St.
San Diego: Craig Radio Eng. & Sales, 1405 University Ave. (3); FM & Television Laboratory, 621 4th Ave. (1); Vavra Radio Service, 4290 41st St.; Western Communications Co., 1620 W. Lewis St.; Zenda Radio & Elec. Co., 3020 Midway Drive
San Francisco: Service Radio Wholesale, 1411 Post St.
San Jose: Ash Radio Service, 389 So. 3rd St.
Santa Rosa: Saare Radio & Appliance Shop, 412 Mendocino Ave.
Stockton: Valley Radio & Appliances, 644 E. Miner
Tustin: Legion Radio Service, 914 W. First St.
Vallejo: Radant's Radio Service, 227 Springs Road
Palo Alto: Timms, 435 University Ave.

STRAIT & RICHARDS INC., 23 Selvage St., Newark 8, N. J.
*(Glolay)*
**Direct from factory.**

STROMBERG-CARLSON CO., 100 Carlson Road, Rochester, N. Y. Distributors in Western states under Stromberg-Carlson trade name.

STROMBERG TIME CORP., 109 Lafayette St., New York City, N. Y.
**Dealers:**
*(carry supplies and repair parts)*
Los Angeles: H. H. Swisher, 2146 W. Washington Blvd. (7)
San Francisco: R. E. Peters, 420 Market St., Room 442 (11)
Seattle: Eicher & Co., 263 Coleman Bldg. (Covers Spokane also)
Ogden: G. W. Goddard Co., 24th St. and Wall Ave.
Denver: Krippner & Polley, 1 Downing St. (9)

SUNBEAM CORP. (formerly Chicago Flexible Shaft Co.), 5600 Roosevelt Rd., Chicago 50, Ill.
*(electric appl., lawn sprinklers, industrial furnaces)*
**Service Stations:**
Tacoma: Ajax Elec. Co., 746 Market St. (3)
San Francisco: Will M. Aronson, 953 Folsom St. (7)
Seattle: Howell's Elec. & Supply Co., 522 Union St. (1)
Portland: W. L. May Co., 215 N. W. Park Ave. (9)
Denver: Midwest Elec. Co., 1124 Santa Fe Ave.
Los Angeles: Sunbeam Appl. Service Co., 737 S. Hope St. (14)
Salt Lake City: Sunbeam Corp., 46 W. 4th St. (13)
Phoenix: Vinson-Carter Electric Co., 325 N. 4th St.
Amarillo: Panhandle Appliance Service Center, 902 W. 2nd Ave.
Dallas: Pearsol Appliance Co., 2010 Commerce St.
El Paso: Wayne M. Tinkler Co. Ltd., 813 Cedar St. at 5 Points

SUNBEAM ELEC. MFG. CO., Evansville, Ind. (See Seegar Refrg. Co.)

SUN-KRAFT INC., 215 W. Superior St., Chicago 10, Ill.

SUNROC REFRIGERATION CO., Glen Riddle, Pa.
**Distributors:**
San Francisco: Dallman Supply Co., 685 7th St.
Portland: Consolidated Supply Co., 139 S. W. Stark St.
Tucson: Keenan Pipe & Supply Co., 100 So. First Ave.
Los Angeles: Kenan Pipe & Supply Co., 2112 E. 27th St.; Vaughan Electric Service Inc., 2614 So. Main St.

A. W. ANGELL JR. Est. 1922 S. E. GAMBLE

**OLIVER B. LYMAN**

55 New Montgomery St., San Francisco 5 SUtter 1-6440

REPRESENTING

ANDALE CO. ..... Special Strainers and Oil Coolers
ATWOOD & MORRILL CO. ..... Special Valves for Steam Power Plants
I-T-E CIRCUIT BREAKER CO. ..... Air Circuit Breakers and Switchgear
KOPPERS CO. ... BARTLETT HAYWARD DIV.—Fast's Flexible Couplings
NELSON ELECTRIC MFG. CO ..... Special Circuit Breaker Enclosures
THE PERMUTIT CO. Water Treating Equipment, Deaerating Heaters
R. E. UPTEGRAFF MFG. CO. ..... Transformers

Sacramento: Dallman Supply Co., 530 Que St.
San Diego: Industries Supply Co., 345 4th Ave.
Great Falls: Reynold Plath
Santa Fe: Santa Fe Builders' Supply Co., P. O. Box 899
Albuquerque: Santa Fe Builders Supply Co.

SUPERIOR ELECTRIC PRODUCTS CORP., Cape Girardeau, Mo.
*(Superlectric & Supermatic household heating appliances)*
**Service Station:**
San Francisco: D and D Appliance, 1414 34th Ave.

SUPERSTAR APPL. (See Stern-Brown, Inc.)

SURF ELEC. APPL. (See G-M Laboratories)

SUTTON, A. O. CORP, 1812 W. 2nd St., Wichita, Kans.
**Distributors:**
Los Angeles: Sues, Young & Brown Inc., 1509 So. Figueroa
San Francisco: McCormack & Co., 450 9th St. (3)
Portland: Lou Johnson Co., 422 N.W. 8th Ave (9)

**PACIFIC ELECTRO SALES CO.**

Kindorf Devices - Southern States Equip. Co.
American Transformer - Touchplate Mfg. Co.

1045 Bryant San Francisco 3 UN. 1-3483

Seattle: Distributors Inc., 2118 4th Ave.
Billings: N. W. Auto Supply Co., 424 N. Broadway
Salt Lake City: Jackson Distributing Co., 115 So. West Temple (1)
El Paso: Momsen Dunnegan Ryan Co.
Denver: Western Appliance Corp., 201 So. Cherokee
Spokane: Inland Empire Wholesalers, 110 So. Wall St.

SWARTZBAUGH MANUFACTURING CO., Toledo 6, Ohio
*(Everhot electric appl.)*
**Service stations:**
Portland: Morrison Elec. Co., S. W. Washington at 13th (5)
San Francisco: Calif. Elec. Service Sta., 168 1st St. (5)
Denver: Midwest Elec. Service Co., 323 W. Colfax St.
Salt Lake City: Appl. Service Center, 57 Richards St.
Phoenix: Appliance Dealers Service & Installation Co., 9 No. 7th Ave.
Los Angeles: California Electric Service Inc., 1518 W. 7th St.
San Diego: Elec. Appliance Service Corp., 302 17th St.
Seattle: Appliance Service Station, 1220 Westlake
Spokane: Maxwell's Inc., First & Wall

TELECHRON INC., Ashland, Mass.
*(clocks)*
**Service Stations:**
Boise: Fisher's, 212 N. 9th St.
Denver: Midwest Elec. Wiring Co., 323 W. Colfax Ave. (4)
Honolulu: Hawaiian Elec. Co., P.O. Box 2750, Merch. Dept.
Los Angeles: Calif. Elec. Service Sta., 1518 W. 7th St. (14); E. W. Reynolds Co., 315 W. 5th St.
Portland: B. W. Cobb Watch & Clock Shop, 220 Alder St.
Salt Lake City: Time & Instrument Co., 57 Richards St. (1)
San Diego: J. F. Zwiener Elec. Co., 1242 1st Ave. (1)
San Francisco: Calif. Elec. Service Sta., 168 1st St. (5)
Spokane: Maxwell's, 619 1st Ave. (8)
El Paso: Wayne M. Tinkler Co., 813 Cedar St.
Sacramento: Lam-Co Electric, 1415 2nd St.
Seattle: Bressie Electric Co., 608 Pike St.

TENNESSEE VALLEY MARKETERS INC., Gambill Bldg., Nashville, Tenn.
**Distributors:**
El Centro: Independent Hdwe. Co. (churns, space heaters)
Los Angeles: U. S. Grant Supply Co., 1154 So. Hill St. (water heaters)
Butte: General Electric Supply Co. (churns)
Denver: Hassco, Inc., 1745 Wazee St. (churns)
Portland: General Electric Supply Co., 230 N.W. Broadway (churns)
Seattle: General Electric Supply Co., 1212 First Ave. S. (churns)
Phoenix: Southwest Cooperative Wholesale Co., 1821 Jackson St.

TEPFER APPL. CO., INC., 49 Central Ave., Cincinnati, Ohio.

THERMADOR ELECTRICAL MANUFACTURING CO., 5119 District Blvd., Los Angeles 22, Calif.
*(Thermador elec. space heater, water heaters and ranges)*
**Factory at L. A. handles all service for Southern California, Arizona and New Mexico**
**Service Stations:**
San Francisco: Electrical Appliance Service Co., 1434 Howard St.
Portland: Bressie Elec. Co., 909 S. W. 5th Ave.
Las Vegas: Miller Elec. & Eng. Co., 13 W. Charleston Blvd.
Fresno: Leonard F. Ballmer, 737 Olive Ave.
Medford: Trowbridge & Flynn Elec. Co., 214 W. Main St.
Spokane: Maxwell's Inc., First Ave. at Wall St. (8)
Sacramento: Lam-Co Electric, 1415 21st St.

THERMO APPL. CORP., 23 Flatbush Ave., New York City N. Y.

THIELE, FRED W., 1758 Elizabeth, Pasadena 7, Calif.

THOR CORP., Cermak Road & 54th Ave., Chicago 50, Ill.
**Factory parts depots and service stations:**
**Branches:**
Seattle: 1250½ First Ave. S. (4)
Portland: 231 E. Burnside St. (14)
San Francisco: 1355 Market St. (3)
Los Angeles: 801 W. Valley Blvd., El Monte
**Distributors:**
Butte: Treasure State Gas & Elec. Co., Metals Bank Bldg.
Seattle: Appliance Parts & Service Co., 214 Stewart St. (1)
Spokane: Graybar Elec. Co. Inc., 152 E. Post St.; Appliance Parts & Serv. Co., 609 Trent
Portland: W. L. May Co., 215 N.W. Park Ave.
San Francisco: Washing Machine Parts Co., 1375 Mission St. (3); Elect. Appl. Serv. Co., 236 Harriet St.
Los Angeles: Washing Machine Parts Co., 1241 So. Hope St. (15); Elect. Appl. Serv. Co., 726 W. Venice Blvd.
San Diego: Washing Machine Parts Co., 1743 India St. (1); Elect. Appl. Serv. Co., 302 17th St. (2)
Denver: Appliance Dist. Inc., Wazee Mkt.; Ray Jones, 376 So. Broadway
Salt Lake City: W. H. Bintz Co., 433 W. 3rd So. St.; A-1 Master Elec. Shop, 47 E. 4th St.

THRUSH, H. A. & CO., 21 E. Riverside Drive, Peru, Ind.

TITAN MFG. CO. INC., 290 Terrace, Buffalo 2, N. Y.
**Service Stations:**
San Francisco: Electrical Appliance Service Co., 236 Harriet St.
Seattle: Appliance Service Station, 1220 West Lake Ave. No.
Los Angeles: Electric Lighting Supply Co., 216 W. 3rd St.
Butte: Radio and Engineering Service, 219 W. Park St.

TOASTMASTER (See McGraw Electric Co.)

TOASTSWELL CO., 620 Tower Grove Ave., St. Louis, Mo.
*(Toastswell products)*
**Service stations:**
San Francisco: M. C. Ross, 190 Gough St. (2)
Portland: Bressie Electric Co., 909 S. W. 5th Ave. (4)
Spokane: Warranty Radio & Appliance Service, W. 1024 First Ave.
Seattle: A Appliance Co., 610 E. Pine St. (22)
Billings: Billings Electric Supply Co., 208 N. 29th St.
Salt Lake City: Appliance Service Center, 57 Richards St. (1)
Denver: Denver Appliance Service, 1225 E. 17th Ave.
Los Angeles: Anderson Repair Service, 616 Maple Ave. (14).

TORK CLOCK CO., 1 Grove St., Mt. Vernon, N.Y.
**Representatives:**
Los Angeles: Allied Industries, 412 Seaton St. (13)
Oakland: George H. Curtiss, 222 29th St. (11)
Seattle: Abbott Elec. Co., 1101 Eastlake Ave. (9)
Salt Lake City: Stevens Sales Co., 41 Post Office Pl. (1)

TRAV-LER RADIO CORP. OF CALIF., 3001 E. Pico Blvd., Los Angeles 23, Calif.

TRAYWAY MFG. CO., 2973 Mission St., San Francisco, Calif.

TRENT CO., Leverington Ave. and Wilde St., Manayunk, Phil. 27, Pa.
*(Trent elec. heaters, hot plates, kettles, ovens, furnaces)*
**Representatives:**
Los Angeles: Kirk-Palka Co., 415 Wall St. (13)
San Francisco: Kirk-Palka Co., 420 Market St.
Portland: Pac. Northwest Brokerage Co., 1238 N. W. Glisan St.
Denver: Earl S. Ran, 1671 Colorado Blvd. (7)

TRILMONT PROD. CO., 24th and Walnut St., Philadelphia 3, Pa.
**Distributors:**
Los Angeles: Roach-Driver Co., 1701 So. Grand Ave. (15)
San Francisco: Frank Edwards Co., 3824 6th St.
Portland: North Pacific Supply Co., 1218 N.W. Glisan St. (9)
Seattle: North Pacific Supply Co., 203 Westlake North at John (9)
Denver: Robt. F. Clark Co., 3062 Blake St.
Butte: F. E. Buck—Sales, 843-E So. Montana St.

TRU-AID DIV.
(See Mitchell Mfg. Co.)

TRUSCON STEEL CO., Albert St., Youngstown, Ohio.

TUTTLE, H. W., & CO., Adrian, Mich., wholesale handle parts

TWINFACE CLOCKS
(See Hobar Co.)

TYLER FIXTURE CORP., Niles, Mich.
*(Tyler Harder-Freez home freezer)*
**Representatives:**
Phoenix: General Sales Co., P.O. Box 511
Los Angeles: Perfecold Inc., 1940 S. Main St.
Denver: Robbins Fixture Co., 937 Santa Fe Drive
Pueblo: Frigid Equip. Co., 2018 Greenwood
Nampa: B. H. Waigand Refrig. Co., 307 2nd Ave.
Twin Falls: Detwieler Bros. Inc., 202 Main Ave., N.
Billings: Taylor Distr. Co., 202 Montana Ave.
Missoula: Clausen Refrig. Co., 432 N. Higgins St.
Albuquerque: A. O. Pipkin, 112 W. Copper St.
Portland: Ralph S. Hamilton Co., 1133 N. W. Glisan
Bend: Oregon Equip. Co., 901 Bond St.
Klamath Falls: Oregon Equip. Co., 127 S. 6th St.
Salt Lake City: Louis A. Roser, P. O. Box 157.
Seattle: Automatic Refrigeration Service Co., 409 Wall St.; Oscar Lucke Co., 1021 6th Ave. S.
Spokane: E. S. Matthews Inc., 151 S. Post St.
Chehalis: Coastal Refrig. Eng. Co., 1075 Market St.
Yakima: Ruxton's Refrig. Service, 402 W. Yakima Ave.

UNIVERSAL APPLIANCES (See Landers, Frary & Clark)

UNIVERSAL MICROPHONE CO., Centinela at Warren Lane, Inglewood, Calif.
*(microphones and recording components)*
**Factory service only.**

U. S. ELEC. HOME PROD. INC., 145 58th St., Brooklyn 20, N. Y.

UTILITY APPLIANCE CORP. (formerly Utility Fan Corp.), 4851 S. Alameda St., Los Angeles 11, Calif.
*(Utility desert coolers)*
**District offices:**
Fresno: Howard Diehl, P.O. Box 2002
Phoenix: Don G. Smith, 101 W. McDowell
Portland: Wm. A. Dozier, 826 N.E. 78th St. (13)

UTILITY ILLUMINATING CO., 230 Madison Ave., Oakland, Calif.

VACULATOR LINE (See Coffee Equipment Service Co.)

VACUUM CAN CO., 25 S. Hoyne Ave., Chicago 12, Ill.

VERPLEX CO., Essex, Conn.
**Factory service only.**

VICTOR ELECTRIC PROD., INC., 2950 Robertson Ave., Cincinnati, Ohio.
Victron products
**Service Centers:**
San Francisco: Electrical Appliance Service Co., 236 Harriet St. (3)
Los Angeles: Electric Lighting Supply Co., 216 W. Third St.

VICTROLAS
(See Radio Corp of America)

VIDRIO PRODUCTS CO., 134 W. 54th St., Chicago, Ill.
*(Sterro, Baby Grande and Master Grande portable washers; Waldorf Liqui-Mixer; Air Chief Fans; De Luxe hair dryer)*
**Factory service only and limited to available parts.**

VIRDEN, JOHN C. CO., Cleveland, Ohio.

V-LECTRICAL ENG. CO., 828 N. Highland, Los Angeles 38, Calif.
(See Calbest Eng. & Electronic Co.)

VOSS BROS. MFG. CO., Davenport, Iowa
*(Voss washing machines)*
**Parts Distributors:**
Salt Lake City: A-1 Master Elec. Shop, 47 E. 4th St. S.
Klamath Falls: Merit Washing Mach. Service, 611 S. 6th St.
Spokane: Spokane Washer Co., 203 W. Main Ave.
Portland: W. T. Dyke Service Co., 12 S. E. 28th Ave.; W. L. May Co., 215 N. W. Park Ave.
Denver: Ray Jones Washing Mach. Parts, 376 Broadway
San Francisco: Washing Mach. Parts Co., 1875 Mission St.
Los Angeles: Elec. Appl. Parts Service Corp., 726 W. Venice Blvd.
Seattle: Appl. Parts & Serv. Co., 214 Stewart St. (1)

WAAGE MANUFACTURING CO., 632 N. Albany Ave., Chicago 12, Ill.
*(WAAGE 3-heat, 4-speed iron, 110 and 32v. AC or DC; Springacto electric iron cords; appliance repair parts)*
Seattle: Elec'l. Eng. Co., 110 Marion St. (4)
Portland: Morrison Elec. Co., S. W. Morrison at 13th (5)
San Francisco: Calif. Elec. Ser. Sta., 168 First St. (5); Will M. Aronson, 955 Folsom St.; Appliance Elec. Ser. Co., 245 Harriet St.
Los Angeles: Elec. Lighting Supply, 216 W. 3rd St. (13); J. & S. Co., 1415 W. Jefferson Blvd.; Appliance Service Corp., 726 W. Venice Blvd.; Calif. Elec. Ser. Station Inc., 832 So. Alvarado St. (5)
Spokane: Spokane Washer Co., W 203 Main St.
Salt Lake City: A-1 Master Electric Co. (5)
**Irons, Spring-Acto elec. iron cords and general appliance repair parts.**
San Diego: J. & S. Co., 1415 W. Jefferson Blvd.; Electrical Appliance Service Corp., 302 17th St.

WALDORF LIQUI-MIXER
(See Vidrio Products Co.)

WALKER & PRATT MFG. CO., 17 Main St., Watertown, Mass.

WARING PRODUCTS CORP., 546 Fifth Ave., New York 17, N. Y.
*(Waring blendor and Waring steam iron)*
**Service Station:**
San Francisco: Calif. Elec. Ser. Inc., 168 First St. (5)
Los Angeles: California Electric Service Inc., 832 S. Alvarado St.
Portland: Morrison Electric Co., 1206 S. W. Washington & 12th Ave.
Denver: Denver Appliance Service, 1225 E. 17th Ave.

WARWICK MFG. CORP., 4640 W. Harrison St., Chicago 44, Ill.

WATERBURY CLOCK CO.
(See Ingersoll Div.)

WATERMASTER ELEC. WATER HEATER (See Collins Concrete & Steel Pipe Co.)

WAVERLY PRODUCTS INC., 35 Benham Ave., Bridgeport (5), Conn. (Steam-o-Matic)
**Service Stations:**
Los Angeles: Calif. Elec. Service Station, 1518 W. 7th St.
San Francisco: Calif. Elec. Service Station, 168 First St. (5)
Portland: W. L. May Co., 215 N.W. Park Ave.
Salt Lake City: Time & Instrument Co., 57 Richards St. (1)
Seattle: Electrical Engineering Co., 2012 3d Ave. (1)
Denver: Midwest Elec. Service, 323 Colfax Ave. (4)

WELKO INC., 219 W. Chicago Ave., Chicago 10, Ill.
**Service Station:**
Portland: W. L. May Co., 215 N. W. Park Ave. (9)
San Francisco: Renner Electric, 260 Kearny St. (8)

WELLS LAMP CORP., 106 Carroll St., Buffalo (3), N.Y.
**Service Stations:**
Seattle: Appliance Parts & Service Co., 216 Stewart St.
Portland: Bressie Elec. Co., 909 S.W. 5th Ave. (4)
Los Angeles: Restaurant Equipment & Service, Inc., 1152 S. Olive St.
San Diego: J. F. Zwiener Electrical Co., 1242 First Ave.

WELLS MFG. CO., 220 Ninth St., San Francisco, Calif.

WESIX ELECTRIC HEATER CO., 390 1st St., San Francisco, Calif.
*(Wesix electric water heaters and room heaters)*
**Branches:**
Seattle: Securities Bldg., 3rd & Stewart (1)
Portland: 103 14th N. W. (9)
San Francisco: 390 1st St. (5)
Los Angeles: Brockman Bldg., 7th & Grand (14)

WESTCLOX, Div. of General Time Instruments Corp., La Salle, Ill.
*(electric clocks)*
**Service Station:**
San Francisco: Schloss Mfg. Co., 540 Mission St. (5)

WESTINGHOUSE ELECTRIC CORP., Mansfield, Ohio. Western office, 1355 Market St., San Francisco 3, Calif.
*(Westinghouse appliances)*
**Serviced by Westinghouse Elec. Supply Co.**
Seattle: 1051 First Ave. S. (4)
Tacoma: 1930 Pacific Ave. (2)
Portland: 134 N. W. 8th Ave. (9)
Butte: 50 E. Broadway
Spokane: 152 S. Monroe St. (1)
San Francisco: 260 5th St. (1)
Oakland: 711 E. 8th St. (6)
Sacramento: 1730 14th St. (14)
Fresno: 2608 California Ave.
Los Angeles: 905 E. 2nd St. (54)
Salt Lake City: 235 W. S. Temple (11)
Phoenix: 315 W. 8th Ave.
Boise: 419 S. 8th St.
Yakima: 135 7th Ave.
Reno: Saviers Elec'l. Prod. Co., 2nd & West St.
San Diego: Elec. Supplies Distr. Co., 435 2nd Ave.

WEST WIND CORP., 1800 Airport Way, Seattle, Wash.

WHIRLPOOL WASHERS & IRONERS
(See Nineteen Hundred Corp.)

WHITE PRODUCTS CORP., Middleville, Mich.
*(White elec. water heaters)*
**Parts and service:**
Denver: Austin & Sons Distributors, 1819 Wazee St. (2)
Salt Lake City: Utah Plumbing Supply Co., 2460 So. State St. (5)
Seattle: Robinson Distributing Co., 121 Yale Ave. N. (9)

WHITE SEWING MACHINE CO., Cleveland 1, Ohio
*(White sewing machines)*
(See also Domestic Sewing Machine Co.)
**Department stores where service and repair work may be obtained.**
Seattle: Frederick & Nelson
Spokane: The Crescent
Portland: Meier & Frank Co.
San Francisco: The Emporium; Macy's of San Francisco
Oakland: H. C. Capwell & Co.; Capwell, Sullivan & Furth
San Jose: L. Hart & Son Co.
Fresno: E. Gottschalk & Co.
Los Angeles: The May Co.; Broadway Dept. Store
Denver: The May Co.
Honolulu: White Sewing Mach. Agency, 815 Waimanu St.
Tacoma: Rhodes Bros.
Salt Lake City: Zion's Co-operative Mercantile Institution
Sacramento: Hale's Dept. Store
Phoenix: Korrick's Inc.

WHITEHEAD, JUD HEATER CO., 4211 Broadway, Oakland, Calif.

WIEGAND CO., EDWIN L., 7500 Thomas Blvd., Pittsburgh, Pa.
*(Chromalox elec. htg. units; Chromalox elec. range top cooking units, water heater replacement units)*

**Serviced by Montgomery Bros.:**
Seattle: 911 Western Ave. (4)
Portland: 1104 N. W. 15th St. (9)
San Francisco: 1122 Howard St. (3)
Los Angeles: 741 E. 8th St. (21)
Denver: The Peterson Co., 1921 Blake St.

WILCOX-GAY CORP., Charlotte, Mich.
*(Recordio, Recordia disc, Recordiapoints, magnetic recording tape)*

**Distributors:**
Los Angeles: Radio Specialties Co., 1956 S. Figueroa St. (7)
Fresno: Martin Distr. Co., 2618 Tulare St.
San Francisco: Dalco Appliance Co., 685 7th St. (1)
Portland: F. B. Connelly Co., 905 Northwest 12th Ave. (9)
Seattle: F. B. Connelly Co., 1015 Republican St. (9)
Spokane: Inland Sales Inc., Realty Bldg.
Salt Lake City: Graybar Electric Co., 245 S. First West St.
Great Falls: Northwest States Supply Co., P.O. Box 2033
Helena: Northwest States Supply Co., P.O. Box 835
Phoenix: Radio Specialties & Appliance Co., 401 W. Jackson St.
Denver: Tommy Thompson's Appliance Division, 1322-24 Broadway (3)
Butte: Northwest States Supply Co., Box 368
Sacramento: Dalco Appliance Co., 530 Que St. (6)
Boise: S. R. Ross Inc., Lusk & Sherwood Sts.

WILLIAMS OIL-O-MATIC HEATING CORP., 1201 E. Bell St., Bloomington, Ill.
*(Williams Oil-O-Matic water heaters & low- and high-pressure oil burners)*
(See also Eureka-Williams Corp.)
Spokane: J. F. Babcock, 222 N. Division St.; Pac. Coast Heating & Appl. Co., So. 124 Wall St.
Bellingham: A. J. Blythe Plumb. & Htg. Co., 1313 Railroad Ave.
Walla Walla: W. R. O'Rourke Plumb. & Htg. Co., 109 S. 2nd St.
Wenatchee: Morris Hdwe. Co., 23 Wenatchee Ave.
Portland: Pac. Coast Htg. & Appl. Co., 1464 N.W. Front St.; Power Plant Eng. Co., 4069 N.E. Union Ave. (12)
Salem. Heating Equipment Co., 274 N. 20th St.
Eugene: L. P. Curtsinger, 267 Van Buren St.
San Francisco: E. A. Cornely, Inc., 1277 Howard St.
Oakland: Cooks Oil Co., 1350 Powell St. (8).
Sacramento: Sierra Co., 1625 N. C St.
Santa Barbara: Ott Hardware Co., 727 State St.
Salt Lake City: Red Feather Oil Co., 204 W. 17th S.
Reno: Savage & Son Inc., 628 S. Virginia St.
Chico: Don Buckman, 120 W. 8th St.
San Diego: Southwest Supply Co., 846 State St.
Albany: Kampfers Appliance & Supply, 413 W. 2nd St.
Bend: Brown Furnace & Sheet Metal Co., 832 Bond St.
Aberdeen: Ed Lynch, 312 First Ave.
Los Angeles: Harry F. Haldeman Inc., 1106 So. Hope St.
Astoria: Aladdin Electric, 211 W. Bond St.
Beaverton, Ore.: Grauer and Ackerman, on Canyon Road
The Dalles: R. A. Twiss, 506 E. 2nd
Everett, Wash.: Everett Plbg. & Htg. Co., 2723 Rockefeller St.
Longview: Manning Fuel Oil Co., Vandercook & Commerce
Vancouver, Wash.: Power Inc., 607 W. 11th St.
Missoula: Missoula Mercantile Co.
Logan, Utah: Wangsgaard Heating Co., 521 No. Main St.
Ogden: Edvalson Appl. & Htg. Co., 461 25th; Jackson Sheet Metal Co., 2359 Kiesel
Provo: P. L. Larsen, Contractor, 335 W. Center St.
Tremonton, Utah: J. G. Burgess Co., 131 So. First E.
Boise: Ryan Automatic Heating Co., Route No. 2; Foster Htg. Ser., 2620 Broadway
Idaho Falls: Idaho Falls Produce & Supply Co., Box 337
Longview, Wash: Cowlitz Heating Co. Inc., 735 Commerce Ave.
Olympia: Acme Fuel Co., 416 State St.
Seattle: Pac. Coast Heating & Appl. Co., Foot of Main St.
Medford: Pac. Coast Heating & Appl. Co., 11th and First Sts.
Yakima: Buren Sheet Metal Co.
Meadow, Utah: Cleon B. Stott, General Delivery
Caldwell, Ida.: Heating Equipment Co., 608 Main St.
Nampa, Ida.: Shaw Sheet Metal, 115 14th Ave. S.
Twin Falls, Ida.: Abbotts Plumbing & Appliance Co., 133 Shoshone St. N.
Weiser, Ida.: Benson & Bates Plumbing, Heating & Electric Co., 1006 W. 5th St.

WINSTED HARDWARE MANUFACTURING CO., Winsted, Conn.
*(Durablit elec. appl.)*

**Service Stations:**
San Francisco: Calif. Elec. Service Stations, 168 First St. (5)
Los Angeles: Calif. Elec. Serv. Inc., 832 So. Alvarado St. (5)
Portland: Bressie Electric, 909 S.W. 5th Ave.

WOOD MFG. CO., JOHN, Conshohocken, Pa.

WOOLWINE ELEC. RANGES
(See Thermador Elec. Mfg. Co.)

WROUGHT WASHER MFG. CO., 2100 South Bay St., Milwaukee, Wis.

YOUNG CORP., Fall River, Mass.

**Parts and service:**
Denver: Ray Jones Washing Machine Parts & Repair Co., 376 So. Broadway (9)

ZENITH RADIO CORP., 6001 Dickens Ave., Chicago, Ill.

**Distributors:**
Phoenix: Black & Ryan, 630 W. Washington St.
Fresno: B. J. DeJarmatt, 1260 Van Ness Ave. (1)
Los Angeles: Sues-Young & Brown, 1509 Figueroa St. (15)
Sacramento: Broili-Parks Co., 2225 19th St.
San Diego: Elec. Supplies Dist. Co., 435 2nd Ave. (12)
San Francisco: H. R. Basford Co., 235 15th St.
Denver: Western Appliance Corp., 1147 Broadway; Deluxe Speedometer & Radio Serv., 1410 Speer Blvd. (auto radio only); Ray Jones Washing Machine Parts & Repair Co., 376 So. Broadway
Billings: Midland Implement Co., Opp. Union Depot.
Portland: Electrical Dist. Inc., 140 N.W. 14th Ave. (9)
Salt Lake City: Flint Dist. Co., 316 W. 2nd South St. (11)
Seattle: Seattle Hdwe. Co., 501 First Ave., S. (14)
Spokane: Columbia Electric & Mfg. Co., S. 123 Wall St. (8)

ZIPPY CORP., Oroville, Wash.

*Mr. Service Man . . .*

**USE GENUINE PARTS**

**To repair your washing machines**

The factories demand it.
The dealers expect it.
The public is entitled to it.

**Ray Jones Washing Machine Co.**

Authorized Factory Parts Jobbers
376 SOUTH BROADWAY • DENVER 9, COLORADO

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**Directory of Manufacturers**
*Pages 2—49*

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**Where-To-Buy In The West**
*Page 50—67*

•

**Directory of Appliance Service and Repair Parts**
*Pages 68—81*

•

**Directory of Western Representatives**
*Pages 82—88*

•

*If you don't find here the listing you want, phone or write*

***ELECTRICAL WEST***

**Phone: DOuglas 2-4600**
**68 POST STREET**
**San Francisco 4, Calif.**

*and we will try to get it for you*

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# DIRECTORY of REPRESENTATIVES

A listing by states and cities of manufacturers' Western representatives handling electrical lines. **Pages 82 to 88.**

**DIRECTORY OF MANUFACTURERS**—Alphabetical listing of manufacturers of electrical equipment, showing their principal Western offices and Sales Representatives. **Pages 2 to 49.**

**WHERE-TO-BUY IN THE WEST**—Alphabetical listing of various electrical products, showing Western sources. **Pages 50 to 67.**

**DIRECTORY OF APPLIANCE SERVICE AND REPAIR PARTS**—A listing of electrical appliance manufacturers' Western service stations and parts depots. **PAGES 68 TO 81.**

## CALIFORNIA

### Alameda

**STONE CO., W.,** 2315 Lincoln Avenue.

### Altadena

**JONES & ASSOCIATES, EVERETT W.,** 800 Florecita Terrace

### Berkeley

**LaMOREE, C. D.,** 2221 Fourth St. **(See advertisement, page 59)**

**PACIFIC CONTROL ENGINEERS,** 409 American Trust Bldg.

### Glendale

**HUNDLEY COMPANY,** 1174 Cherry St.

**WOOLSEY, C. L.,** 1320 Opechee Way.

### Hollywood

**KEESE ENGINEERING CO.,** 7354 Santa Monica Blvd.

**NEELEY ENTERPRISES, NORMAN B.,** 7422 Melrose Ave.

**ROBERTS & ASSOCIATES, E. V.,** 6516 Selma Ave.

**VAN GROOS, J. C.,** 1436 North Serrano

### Los Angeles

**AGENCIES COMPANY,** 125 So. Santa Fe. **(See advertisement, page 54)**

**AIREY CO., INC., F. J.** 1513 Mateo St.

**ALLEN, JOHN R.,** 408 So. Spring

**ALLEN & DARE,** 1322 W. 11th St.

**ALLIED INDUSTRIES,** 412 Seaton St.

**ANDERSON COMPANY, KENNETH,** 412 Seaton St.

**ARLIN, A. W.,** 1812 W. Silver Lake Dr.

**ARTER CO., LEE,** 672 So. Lafayette

**ASSOCIATED WHOLESALE ELEC. CO.,** 1111 Santee St.

**BANDOLI-McINTYRE CO.,** 1027 No. Highland.

**BARBERA & COMPANY, A. A.,** 311 No. Martel Ave.

**BARSTOW & DORAN,** 1406 So. Grand Ave.

**BAUGHMAN CO., E. J.,** 350 So. Central.

**BLECKSMITH, C. C.,** 164 So. Central Ave.

**BOOTH COMPANY, ARTHUR E.,** 307 East Third St. **(See advertisement, page 66)**

**BRAN CO., FRANK H.,** 607 E. 6th St.

**BRAND COMPANY, WALTER E.,** 1855 Industrial St.

**BURROUGHS SALES CO.,** 969 So. Serrano Ave.

**CARDOX WESTERN, INC.,** 151 No. Ave. 19.

**CAYGILL CO.,** 409 E 2nd

**CLAPP COMPANY, R. B.,** 314 Omar Ave.

**M. L. COHN,** 1323 Venice Blvd.

**COLESWORTHY, J. B.,** 1709 W. 8th.

**CONDON, EARL S.,** 1151 So. Broadway

**COOMBS SALES COMPANY, O. W.,** 1026 So. Olive St.

**CORRIN, JOHN G.,** 600 So. Highland Ave.

**CUNNINGHAM & SON, R. E.,** 601 West 5th St.

**DREYER CO., B. W.,** 714 W. Olympic Blvd.

**EASTERBROOK, H. D.,** 1262 So. Boyle.

**ECKERT-LLOYD CORP.,** 2115 So. San Pedro St.

**ELECTRIC SALES CO.,** 1612 Maple Ave. .

**ELECTRICAL DISTRIBUTORS, INC.,** 1314 Glendale Blvd.

**ELEC'L SPECIALTY CO.,** 418 E. 3rd St. **(See advertisement, page 14)**

**ENGINEERING SALES COMPANY, H. M. Hall,** 411 South Wall St.

**FEY & KRAUSE, INC.,** 1635 So. Figueroa St.

**FISKE COMPANY, INC., L. G.,** 712 So Olive St.

**FRISBIE COMPANY, H. C.,** 1120 E. Pico.

**GARLAND-AFFOLTER ENG. CORP.,** 417 So. Hill

**GARNETT YOUNG & CO.,** 910 E. Third St.

**GENERAL ELEC. SUPPLY CORP.,** 700 Turner St.

**GILSON ROSSE M.,** 1427 So. Hope

**GOUGH INDUSTRIES, INC.,** 819 East First. **(See advertisement, page 67)**

**GRAHAM REYNOLDS ELECTRIC CO.,** 300 East Third St.

**HALDEMAN, INC., HARRY F.,** 1106 So. Hope.

**HARGROVE-GREEN CO.,** 2719 Broadway

**HILL SALES CO., J. T.,** 800 West 11th St.

**"HOCK"ENSMITH SALES,** 1262 So. Boyle Ave. **(See advertisement, page 61)**

**HOPPE & COMPANY, W. A.,** 2025 San Fernando Road.

**HORN CO., WM. P.,** 2806 W. 7th St.

**HOYT, GAYLORD,** 154½ So. Manhattan Place.

**HOWZE & COMPANY,** 323 W. 5th St.

**HULL ENTERPRISES,** 2129 Venice Blvd.

**INDUSTRIAL ENGINEERING & EQUIP.,** 708 Subway Terminal Bldg.

**JENSON INSTR. CO.,** 335 So. Central Ave.

**JORDAN, E. J.,** 117 No. Robertson Blvd.

**JOSLYN PACIFIC COMPANY,** 5100 District Blvd.

**KEESE ENGINEERING CO.,** 7354 Santa Monica Blvd.

**KILIAN, J. O.,** 2311 Midvale Ave.

**KING, W. C.,** 912 E. Third St.

**KIRK-PALKA COMPANY,** 1415 Wall St. **(See advertisement, page 61)**

**KNIGHT COMPANY, W. BERT,** 908 Venice Blvd.

**LaMOREE, C. D.,** 1325 San Julian. **(See advertisement, page 59)**

**LASURE COMPANY, HARRY A.,** 2216 West 11th St.

**LEVIN, MAX,** 166 No. La Brea

**LINDEMANN, A. L.,** 137 No. Citrus Ave.

**LINER, JOSEPH,** 1827 So. Hope St.

**LIPPINCOTT CO.,** 1052 W. 6th.

**LITTRELL-RICHARDSON CO.,** 674 W. Washington.

**LOMBARD-SMITH COMPANY,** 2032 Santa Fe Ave.

**LYNN & CHEMNITZ,** 1159 So. Broadway

**MARCH COMPANY, J. W.,** 1517 W. Pico Blvd.

**MARWOOD, LTD.,** 320 E. Third St.

**MAYDWELL & HARTZELL, INC.,** 455 Colyton St. **(See advertisement, page 7)**

**McGUIRE, WILLIAM A.,** 1322 W. 11th St. **(See advertisement, page 82)**


William A. McGuire
Representing
F. W. WAKEFIELD BRASS CO.
and
HUB ELECTRIC COMPANY
1322 W. 11th Street
Los Angeles 15, Calif.,
RIchmond 1612

# "THREE E" EXTRAS

**"THREE E'S" CONSTANT IMPROVEMENT PROGRAM MEANS GOOD PRODUCTS THAT SURPASS SPECIFICATIONS**

**YOU CAN DO IT BETTER WITH AN AIR INTERRUPTER ISOLATOR**

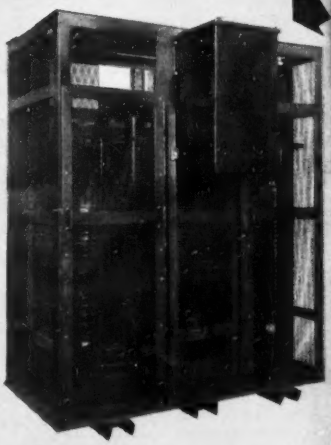
As a device for disconnecting of high voltage circuits the Three E ISOLATOR stands in a class by itself. The Air Interrupter ISOLATOR, the latest member of the Three E ISOLATOR family, incorporates all the exclusive features of the disconnect ISOLATOR that has made the same so popular. In addition, it is so constructed with removable interrupter units in upper studs so that it can successfully interrupt moderate load currents, and charging currents of transformers, regulators, cables and other equipment.

*The Air Interrupter type of ISOLATOR can be combined with a pothead body to form an Air Interrupter CABLE ISOLATOR which makes an excellent device for interrupting charging currents of lead covered power cables.*

WESTERN REPRESENTATIVES

Boise, Idaho — Graybar Electric Co.
Denver, Colorado — Graybar Electric Co.
Los Angeles, Calif. — A. A. Barbera Co., 311 N. Martel Ave.
Seattle, Wash. — Graybar Electric Co.
Portland, Oregon — Graybar Electric Co.
Salt Lake City, Utah — Graybar Electric Co.
San Francisco, Calif. — H. B. Squires Co., 1128 Howard St.

**5000 volt Air Interrupter ISOLATOR used to break charging currents in large three-phase air-cooled transformer.**



***Send for Bulletin 138 which gives detailed information and a complete listing of Air Interrupter ISOLATORS up to and including 15000 volt ratings.***

ELECTRICAL ENGINEERS EQUIPMENT CO.
MELROSE PARK, ILLINOIS

**L. W. THOMPSON**

Circuit Breakers
Switch Gear
Switch Boards
Electrical Measuring
Instruments
Connectors

MUtual 9076
232 So. Hill St.
Los Angeles 12, Calif.

**McLOUGHLIN CO.**, 811 E 14th Place
**MICHEL BROS.**, 206 E. 31st St.
**MILLER-JOYCE**, 609 So. Vermont Ave.
**MODERN HOUSEHOLD SALES, INC.**, 336 No. San Pedro St.
**MONSON ELEC. CO.**, 2533 So. Hill St.
**MONTGOMERY BROS.**, 2113 South San Pedro St. (See advertisement, page 86)
**MORGAN, MAC**, 441 East 3rd St.
**MULLENBACH ELECTRICAL MFG. CO.**, 2300 East 27th St. (See advertisement, page 32)
**MURPHY-HAIN CO.**, 720 E. 2nd. (See advertisement, page 54)
**NOEL & ASSOCIATES, RAY J.**, 2714 So. Hill St.
**PACIFIC ELECTRO SALES, INC.**, 2038 Bay St.
**PACIFIC SCIENTIFIC CO.**, 1430 Grande Vista Ave.
**PANAMA LAMP & COM. CO.**, 700 E. 1st St. (See advertisement, page 58)
**PAULES, E. G.**, 1762 W. Vernon Ave. (See advertisement, page 84)
**PERLMUTH-COLMAN & ASSOCIATES**, 1335 So. Flower St.

**E. G. PAULES**
Western Representative,
Universal Winding Co.
(Universal Coil Winder)
1762 W. Vernon Ave.,
Los Angeles 37, Calif

**PETERSON CO., F. SOMERS**, 413 E. 12th St.
**POMEROY COMPANY, J. G.**, 1004 East Fourth St.
**PORTER COMPANY, DON**, 1117 So. Robertson.
**PREFERRED EQUIPMENT, INC.**, 4232 E. Whiteside.
**QUALITY ELECTRIC CO., LTD.**, 1235 E. Olympic
**RITTENHOUSE, CLAY C.**, 235 E. Century Blvd.
**ROBERTS & ASSOCIATES, E. V.**, 5014 Venice Blvd.
**ROESCH CO., D. J.**, 2200 So. Figueroa St.
**RUPP CO., V. T.**, 1150 W. Olympic Blvd.
**RUTKIN SALES, 937 Stanford Ave.**
**SANFORD CO., D. E.**, 1049 So. Hill
**SCHALLER COMPANY, J. J.**, 837 Traction Ave.
**SHEETER, HUGH X.**, 406 So. Main
**SIEVERS, EDWARD S.**, 5171 Hollywood Blvd.
**SMITH, A. ALLEN**, 1855 Industrial St.
**SMITH, JOSEPH M.**, 3625 So. Grand Ave.
**SNYDER ENGINEERING CORP.**, 2444 E. 24th St.
**STRAWN ENGINEERING REPRESENTATIVES, GEORGE A.**, 2312 West Vernon Ave.
**STRIEBY & BARTON, LTD.**, 912½ E. Third St. (See advertisement, page 66)
**SUES, YOUNG & BROWN, INC.**, 1509 So. Figueroa St.
**SWEET, WALTER S.**, 2115 So. San Pedro St.
**TAUFENBACH CO., LES**, 816 W. 5th St.
**THACKABERRY, M. N.**, 304-308 E. 3rd St.
**THOMAS AGENCY, INC., NELSON R.**, 344 E. First.
**THOMPSON, L. W.**, 232 So. Hill. (See advertisement, page 84)
**TRI-STATE SUPPLY CORP.**, 544 So. San Pedro.
**TUBERGEN, JOHN B.**, 1406 So. Grand Ave.
**TURK, MILTON**, 1855 Industrial St.
**TURNQUIST BROTHERS**, 1807 E. Olympic Blvd.
**VAN LUVEN CO., H. H.**, 307 East 3rd St. (See advertisement, page 46)
**WARBURG CO., ED.**, 1207 E. 8th St.
**WELBORNE, W. E.**, 2847 W. Pico.
**WESTINGHOUSE ELEC. SUPPLY CORP.**, 905 E. 2nd St.
**WOOD CO., FRED C.**, 520 W. 7th St.
**YOUNG & CO., ROBERT A.**, 714 Olympic Blvd. (See advertisement, page 84)
**YUDELSON, FLOYD**, 1315 So. Beverly Glen.
**ZINSCO ELECTRICAL PROD.**, 729 Turner St.

**MEYERS**
Enclosed Safety Switches
Switchboards—Panelboards
Electrical Sheetmetal
Products
Meyers Safety Switch Co., Inc.
424 Tehama St. San Francisco 3

**ROBERT A. YOUNG & COMPANY**
714 W. Olympic Blvd. — Los Angeles 15
representing
The Kerite Company—Kerite Cable
Marcus Transformer Co.—Dry Type Transformers: Lighting, Load Center and Pole Top Distribution.
The Kindorf Co.—Conduit and Pipe Hangers, and Supports
W. C. Dillon & Co., Inc.—Dynamometers and Specialties
Lexington Electric Products Co., Inc.—Fire Pump Control
Pike-Huff Company—Automatic Motor and Pump Control
Phone—PRospect 3331

## Menlo Park

**MANUFACTURERS MARKETING SERVICE**, P. O. Box 277.

## Oakland

**A. B. SMEDLEY**, 192 E. Glenarm (See advertisement, page 56)
**MILLER, PERRY B.**, 3828 14th Ace.

## Pasadena

**R. T. PUELICHER**, 3151 E. Colorado St.
**A. B. SMEDLEY**, 470 E. Orange Grove.

## San Diego

**BELFORT, L. E.**, 4750 Kensington Dr.
**CALIFORNIA ELECTRIC WORKS**, 424 8th St.
**ELECTRIC SUPPLIES DISTRIBUTING CO.**, 435 2nd Ave.
**WARE, JOHN ALLEN**, 301 W. "G" St.

## San Francisco

**AGENCIES CO.**, 288 7th St. (See advertisement, page 54)
**ALEXANDER, W. P.**, 420 Market St.
**ALLEN CO., CLYDE**, 116 New Montgomery St.
**ALLIED INDUSTRIES**, 1114 Valencia St.
**ANGUS-CAMPBELL, INC.**, 235 San Bruno Ave.
**ARTER CO., LEE**, 1355 Market St.
**BAKEMAN & ASSOCIATES, C. T.**, 752 Natoma St. (See advertisement, page 56)
**BALLARD COMPANY**, 407 Sansome St.
**BASFORD COMPANY, H. R.**, 235 15th St.
**BAUM, R. E.**, 1085 Monadnock Bldg.
**BENZ CO., FRED D.**, 287 Minna St. (See advertisement, page 84)
**CURTISS, GEORGE H.**, 540 McAllister St. (See advertisement, page 4)
**DENHAM SALES SERVICE**, 538 Polk St. (See advertisement, page 66)
**DuFRANE COMPANY, FRANK I.**, 1063 Howard St.
**EDWARDS COMPANY, FRANK**, 382 6th St.
**ELECTRIC AGENCIES, INC.**, 198 Georgia.
**ELECTRICAL SPECIALTY CO.**, 316 Eleventh St. (See advertisement, page 14)
**ELLIOTT, DONALD T.**, 420 Market St.
**ERLACH LEE COMPANY**, 1355 Market St.
**ERIKSON**, 122 New Montgomery St.
**FISKE CO., INC., L. G.**, 778 Natoma St.
**FOWLER CO., M. L.**, 605 Third St.
**GARLAND-AFFOLTER ENG. CORP.**, 58 Sutter St.
**GARNETT YOUNG AND CO.**, 390 Fourth St.
**GENERAL ELEC. SUPPLY CORP.**, 1201 Bryant St.
**GRAY, GEO A.**, 2720 17th St. (See advertisement, page 50)
**GRAYBAR ELECTRIC CO., INC.**, 190 9th St.
**GROESCHEL, ALBERT**, 1355 Market St.
**HAMILTON COMPANY, C. G.**, 1355 Market St.
**HAMMOND, M. E.**, 420 Market St.
**HAUCK CO., ERNEST F.**, 324 5th St.
**HELD, HERMAN E.**, 420 Market St.
**HILLIS COMPANY, C. C.**, 1982 47th Ave.
**HODGES & GLOMB**, 1264 Folsom St.
**HOLZMUELLER, C. J.**, 1108-10 Howard St.
**HONN COMPANY, GEORGE E.**, 420 Market St. (See advertisement, page 55)
**HORN CO., WM. P.**, 1355 Market St.
**HUGHSON & MERTON**, 1270 Bush St.
**INGALLS C. E.**, 526 Rialto Bldg. (See advertisement, page 86)

**FRED D. BENZ COMPANY**
*Manufacturers' Representatives*
WIRE & CABLE, PORTABLE SAFETY SCAFFOLDS,
HYKON WIRING REELS, FLUORESCENT FIXTURES
287 Minna St. San Francisco 3 SUtter 1-5376

**BEYER, N. S.**, 574 Eddy.
**BRAINARD, W. V.**, 778 Natoma St. (See advertisement, page 61)
**BROWN COMPANY**, 58 Sutter St.
**BUTCHER, HENRY M.**, 1800 Franklin St.
**CADY, J. F.**, 995 Market St.
**CALIFORNIA ULTRAVIOLET COMPANY**, 420 Market St. (See advertisement, page 59)
**CAMPBELL-GEORGE CO.**, 379 Brannan St. (See advertisement, page 61)
**CEAZAN COMPANY, J. N.**, 1547 Mission St.
**CHAPMAN COMPANY, J. M.**, 290 9th St. (See advertisement, page 55)
**CHURCH COMPANY, L. F.**, 750 Natoma.
**COOK COMPANY, E. B.**, 1063 Howard St. (See advertisement, page 61)
**COOMBS, O. W.**, 21 South Park
**COX COMPANY, OMER**, 116 New Montgomery
**H. S. JONES**, Rialto Building.
**JOSLYN PACIFIC COMPANY**, 180 Potrero.
**KEELER-WHITE**, 615 7th St.
**KEESE ENGINEERING CO.**, Leo Kaufman, 411 Brannan St.
**KIRK-PALKA CO.**, 420 Market St. (See advertisement, page 61)
**LAVENSON AND SAVASTA**, 1208 Howard St.
**LICHTENSTEIN, CYRIL**, 1355 Market St.
**LIPPINCOTT CO.**, 461 Market St.
**LYMAN, OLIVER B.**, 55 New Montgomery St. (See advertisement, page 79)
**LYNN & CHEMNITZ**, 1355 Market St.
**MADDOX, JOHN**, 420 Market St.
**MARSHALL, HARRY E.**, 104 Olive St.
**MARWOOD, LTD.**, 357 Ninth St.
**MAYDWELL & HARTZELL, INC.**, 158 11th St. (See advertisement, page 7)

**McMILLEN-STANLEY CO.**, 778 Natoma St.

**MEIER CO., CHARLES A.**, 1473 Harrison St.

**MEYERS SAFETY SWITCH**, 423 Tehama St.
(See advertisement, page 84)

**MONSON ELECTRIC CO.**, 1108-10 Howard St.

**MONTGOMERY BROTHERS**, 1122 Howard St.
(See advertisement, page 86)

**MUNDSTOCK, JAMES** 320 Market St.
(See advertisement, page 85)

**JAMES MUNDSTOCK**
320 Market Street
San Francisco 11, Calif.
YUkon 6-3935

**HUB ELECTRIC COMPANY**
Chicago, Ill.
Lighting Equipment

**ZENITH ELECTRIC CO.**
Chicago, Ill.
Automatic Control Equipment

**KULKA ELECTRIC MFG. COMPANY**
Mount Vernon, N. Y.
Wiring Supplies

**THE FRINK CORP.**
Lighting Fixtures

**MURPHY CO., A. B.**, 228 Ninth St.

**NIBLEY & WALK**, 465 California St.

**NICHOLAS COMPANY, F. M.**, 1123 Harrison St.
(See advertisement, page 52)

**NOBLE COMPANY, JAS. J.**, 501 Taylor St.

**NOTT, L. A.**, 1061 Howard.
(See advertisement, page 40)

**PACIFIC ELECTRO SALES**, 1045 Bryant St.
(See advertisement, page 79)

**PACIFIC SCIENTIFIC CO.**, 25 Stillman St.

**PANAMA LAMP & COM'L CO.**, 815 Howard St.
(See advertisement, page 58)

**PARDEE, S. C.**, Sharon Building.

**PETERSON COMPANY, F. SOMERS**, 524 Folsom St.

**PIONEER APPLIANCE CO.**, 1355 Market St.

**POLITEO, DOM.** 547 Howard St.

**PRINCE & COMPANY, M. P.**, 111 New Montgomery St.

**PRUSSIA CO., ROBERT R.**, 224-226 Harriet St.

**RALPHS-PUGH COMPANY, INC.**, 530 Howard St.

**RADKE, Dan H.**, 754 Natoma St.

**ROSS CO., DAVID H.**, 104 Ninth St.

**ROUTH COMPANY, THE T. R.**, 742 Market St., Room 223
(See advertisement, page 85)

**ROWE, ARTHUR E.**, 660 Mission St.
(See advertisement, page 55)

**RUSSELL & COMPANY**, 1355 Market St.

**RYALS ELECTRIC CO.**, 474 Natoma St.
(See advertisement, page 38)

**SAFETY SWITCHBOARD CO.**, 1445 Stevenson St.
(See advertisement, page 40)

**SANFORD CO. OF SAN FRANCISCO, D. E.**, 12th and Howard Sts.

**SMEDLEY, A. B.**, 2701 21st St.,
(See advertisement, page 56)

**SPECTOR CO., THE.**, 1355 Market St.

**SQUIRES COMPANY, H. B.**, 1128 Howard St.

**SQUIRES & MARSHALL**, 780 Bryant

**STONE, FRED J.**, 1355 Market St.

**SUES, YOUNG & BROWN, INC.**, 1355 Market St.

**TAUFENBACH CO., LES.**, 1355 Market St.

**TRI-STATE SUPPLY CORP.**, 554 Bryant St.

**VOORHEES & COMPANY, W. R.**, 417 Market St.

**WALTHAM, DeWITT & KRUSI**, 630 Monadnock Bldg.
(See advertisement, page 85)

**WESTERN HARDWARE & TOOL CO.**, 97 Ninth St.
(See advertisement, pages 52, 54, 62, 85)

**Linemen's Catalog**

Write for This Free Catalog #8A Showing All Items Used By Linemen, Electricians, Iron Workers, etc.

**WESTERN HDWE. & TOOL CO.**
97 9th St., San Francisco, Calif.

**WESTINGHOUSE ELEC. SUPPLY**, 201 Potrero.

**WESTON & COMPANY, WM.**, 1133 Moraga St.

**WHITE & ASSOCIATES, GLENN B.**, 1355 Market.

**WILCOX COMPANY, E. A.**, 277 7th St.

**WOOD COMPANY, FRED C.**, 1355 Market St.

### Whittier

**FULLER CO., WM. H.**, 1038 Palm Ave.

## ARIZONA

### Phoenix

**E. B. BOMAR**, 622 No. 1st St.

**COULSON, J. C.**, 449 West Jackson.

**GRENDAHL & SON, O. J.**, 726½ E. Portland St.

**REDMOND SUPPLY COMPANY, J. E.**, 625 W. Madison St.

**SHEFLER COMPANY, H. GEORGE**, 240 So. 1st Ave.

**SIEGMUND, FRANK M.**, P. O. Box 162

**SOUTHWESTERN COMPANY**, Security Bldg.

**STANDARD EQUIPMENT COMPANY**, 135 No. First St.

**THUNDERBIRD SALES CORP.**, Phoenix.

## COLORADO

### Denver

**AMBLER, J. B.**, Denver Natioial Bldg.

**B. & W. SALES CO.**, 100 W. 13 Ave.

**BACON'S**, 3327 Brighton Blvd.

**BELT & CO., C. D.**, 1530 16th St.

**BLINN CO., THE JAMES H.**, 1140 Speer Blvd.

**BOWEN, RONALD G.**, 1896 So. Humboldt.

**THE T. R. ROUTH CO.**
**METERING & CONTROL SPECIALISTS**

**THE ELECTRIC CONTROLLER & MFG. CO.**
Mill & Crane Motor Control, Magnetic Brakes, Limit Stops, Lifting Magnets, Automatic Weld Timers.

**ESTERLINE-ANGUS CO., INC.**
AC & DC Recording Instruments, Wattmeters, Ammeters, Voltmeters, Speed Recorders, Pressure Recorders, Liquid Lever Recorders, Telemeters.

**LAPP INSULATOR CO., INC.**
Line Posts, Station Posts, Bus and Switch Indicators, Radio Insulators.

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Hand Tachometers, Speed Indicators, Chronograph & Stop Watches.

**BUFFALO METER COMPANY**
Water, Oil & Specialty Liquid Meters.

742 Market St., Room 223 • San Francisco 2 • GArfield 1-6487

**FLOYD H. BOYER**, 1757 Stout St.

**BROYLES, SR., H. N.**, P. O. Box 473.

**CARPENTER CO., ALLEN B.**, 820 Twelfth St.

**CLINE & CO.**, 812 12th St.

**DAVIN, H. L.**, 4535 Batavia Pl.

**ELECTRIC MOTOR SUPPLY CO.** 1646 Blake St.

**ELECTRICAL SPECIALTY CO.**, 1015 21st St.
(See advertisement, page 14)

**ELSNER, F. R.**, 842 So. York St.

**GALL & CO., FRED**, 2050 Humboldt St.

**GENERAL ELECTRIC SUPPLY CORP.**, 1429 18 St.

**HAMILTON & ASSOCIATES**, 612 Insurance Bldg.

**HOLLOWAY CO., THE E. C.**, 333 Jersey St.

**HYDE, RICHARD A.**, 3879 Tennyson St.

**KAMPHAUSEN COMPANY, DAN**, Continental Oil Building.

**KAUB & COMPANY, HUBERT**, 1025 Santa Fe Drive.

**KRIPPNER & POLLEY**, No. 1 Downing.

**LANDES, ZACHARY & PETERSON**, 2544 W. 28th St.

**LARSON DISTRIBUTING CO.**, 550 Lincoln.

**LEONARD, CO., F. J.**, 1229 California St.

**MINE & SMELTER SUPPLY CO.**, 1422 17th St.

**MOREY MERCANTILE CO.**, 1628 16th St.

**MUELLER, MARK G.**, 1644 Blake.

**NELSON COMPANY, A. J.**, Box 2244

**NOWELS, RICHARD W.**, 1918 Arapahoe St.

**WALTHAM, DeWITT & KRUSI**
**MANUFACTURERS' REPRESENTATIVES**

REPRESENTING

**W. N. MATTHEWS CORP.**
Distribution Specialties

**MALLEABLE IRON FITTINGS CO.**
Thru Bolt Guying Fittings, Guy Clamps, Cross Arm Gains, etc.

**ANDERSON BRASS WORKS**
Tap Lugs, Ground Clamps, Aluminum Terminal Boxes, Bus Fittings, etc.

**JOHN E. FAST & CO.**
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**630-632 MONADNOCK BLDG.**
**SAN FRANCISCO 5**
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C. E. INGALLS AND SONS
Factory Representatives of Manufacturers of Electrical Equipment
541 Monadnock Bldg.
San Francisco 5, Calif.
GArfield 1-2916

■ TOM WOOD ■
220 9th Ave., North, Seattle 9, Wash.
SANGAMO ELECTRIC CO.
Meters, Time Switches
S & C ELECTRIC CO.
High Tension Fuses and Equipment
SUPERIOR SWITCHBOARD & DEVICES CO.
Meter Enclosures and Testing Devices
H D ELECTRIC CO.
Maximeters
LINCOLN METERS
Thermal Demand Meters
A. B. CHANCE CO.
Switch Division

**OLDMSTEAD, H. M.**, 1708 16th St.
**OLMSTEAD CO., HARVEY M.**, 1534 Wazee.
**REITZ SALES**, 1324 Bellaire St. N.W. 6th Ave. (See Adv., page 14.)
**PORTER LITTELL SALES**, 144 W. 12th Ave.

## NEW MEXICO

### Albuquerque

**CARDER JR. CO., THE JOHN**, Box 808.
**ELECTRIC SUPPLY CO.**, 609 No. Broadway.
**HOFFMANN ENGINEERING CO.**, 313 So. Second St.
**RICHARD LANCASTER**, Albuquerque Hotel.
**THE SALES COMPANY**, 1624 No. 1st.

## OREGON

### Portland

**BACH ELECTRIC, PETE**, 1233 N. W. 12th Ave.
**BAXTER COMPANY, L. M.**, 1008 S. W. 6th Ave.
**BLONDER AGENCIES, JOE**, 2617 N. E. 14th Ave.
**BRUCE-EMMET CO.**, 618 N. W. Hoyt St.
**BURCHAM COMPANY, DON H.**, 917 S. W. Oak.
**CAMNITZ, R. M.**, 1732 N. E. 25th St.
**CAVANAUGH AGENCIES, J. M.**, 821 Flanders St.
**CHEMNITZ COMPANY, FRED G.**, 1310 S. W. Alder St.
**COAST ELECTRIC & MFG. CO.**, 1720 N. E. 6th Ave.
**CONNELLY COMPANY, F. B.**, 1233 Northwest 12th St.
**COTTRELL CO., WM. J.**, 131 S.W. 4th Ave.
**CRESS CO., W. H.**, 306 Concord Bldg.
**DETSCH, ARTHUR**, 309 S. W. 3rd St.

EDWIN L. WIEGAND CO.
Chromalox Electric Heating Elements
PEERLESS ELECTRIC CO.
Exhaust Fans, Blower Units & Panels, Furnace Fans
ARK-LES SWITCH CORP.
Electric Switches
FENWAL, INCORPORATED
Thermoswitches—Electric Control Equipment
COMMERCIAL FILLERS CO.
Fulflo Filters—For all liquid and gases
SAUEREISEN CEMENTS CO.
Electric Resistor Cements
*Exclusively Represented in the Following Territory:*
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SEATTLE 4 911 Western Ave. SAN FRANCISCO 3 1122 Howard St. PORTLAND 9 1104 N.W. 15th St. LOS ANGELES 11 2113 So. San Pedro St.

**SALES ENGINEERS, INC.**, 512 Tabor Bldg.
**SCHLOSS & SHUBART**, 1626 Wazee.
**SCHMIDT SALES CO.**, 311 Exchange Bldg.
**SCHUMANN COMPANY, KENNETH B.**, 814 12th.
**SLUMAN & COMPANY, D. H.**, 130 W. 12th Ave.
**SOLEN CO., ALBERT M.**, 1225 E. 17th Ave.
**STAIBLE & SONS, FRED E.**, 2046 Arapahoe.
**STONE-HALL COMPANY**, 3101 Walnut St.
**TARBOX CO., GEO. E.**, 439 Williams St.
**URQUHART, M. B.**, 16th St. at Blake.
**VONIER, E. T.**, 1048 Broadway.
**YOUNG, C. A. D.**, 726 Colorado Bldg.
**YOUNG CO., W. E.**, 2134 Curtis St.
**EDSTROM, J. E.**, Rt. 6, Box 1331.
**ELECTRIC SPECIALTY CO.**, 325 N.W. 6th Ave. (See advertisement, page 14)
**ELECTRONIC SPECIALTY REPRESENTATIVES**, 331 S.E. 62nd Ave.
**FALKENHAGEN CO., LOU**, 907 N. W. Irving.
**GARLAND-AFFOLTER ENG. CORP.**, 1233 N. W. 12th Ave.
**GENERAL ELEC. SUPPLY CORP.**, 300 N. W. 14th.
**HENKEL SALES, F. C.**, 317 Builders Exchange Bldg. (See advertisement, page 59)
**HOFFMAN, GEORGE L.**, 3007 S. W. Nebraska.
**HORN CO., WM. P.**, 821 N. W. Flanders.
**JOSLYN PACIFIC CO.**, 1523 N. W. Kearney St.
**KEELER WHITE CO.**, 302 N. W. 4th Ave.
**KLAUS, CHAS. E.**, 403 S. W. 1st Ave.
**KRAFT, GEO., CO.**, 2028 S. W. Yamhill.
**MARWOOD LTD.**, 209 S. W. First Ave.
**MAY CO., INC., W. L.**, 215 N. W. Park Ave.
**MAYDWELL & HARTZELL, INC.**, 1238 N. W. Glisan St. (See advertisement, page 7)
**MONTGOMERY BROS.**, 1104 N. W. 15th St. (See advertisement, page 86)
**MUNRO COMPANY, D. R.**, 112 S. W. Pine.
**NIELSON, HOWARD B.**, 429 S. W. 4th Ave.
**NORTHWEST SALES CO.**, 1603 N. W. Johnson.
**PACIFIC ELECTRIC SALES CO.**, 1238 N. W. Glisan.
**RIEKE, R. C.**, P. O. Box 4242
**TURNER & CO., WM. S.**, 432 Pacific Bldg.
**WESTINGHOUSE ELEC. SUPPLY CORP.**, 134 N. W. 8th Ave.
**ZAUGG, FRED S.**, 907 N.W. Irving.

## TEXAS

### Dallas

**ANDERSON, GEO. E.**, 1901 Griffin St.
**HUEMMER, WALTER J.**, Dallas Trans. & Term. Whse. Bldg.
**MORGAN COMPANY, JACK**, 1312 McKinney Ave.
**NU RO CO.**, 301 Southland Life Bldg.
**JIM RANDALL CO.**, Thomas Bldg.
**ROBERTSON, INC., ELGIN B.**, 1339 Plowman
**RUHLING COMPANY, T. C.**, 5020 Bradford Drive.
**SIMMER COMPANY, FRED H.**, 1406 So. Akard.
**STUART, J. B.**, 4401 Coruth St.
**WYNNE SNOOTS COMPANY**, 2nd Unit Santa Fe Bldg.

### El Paso

**ELECTRICAL ENGINEERING & SALES CORP.**, P. O. Box 3143 Sta. A.
**GORMAN, FRANK W.**, 1309 Texas.

### Fort Worth

**MOORE, GROVER**, 908 9th Ave.

### Houston

**COVINGTON DIST. CO.**, 34 No. Hamilton.
**JOHN H. JAMISON**, 3003 Navigation Blvd.
**NU RO CO.**, 1703 Oliver St.
**WILLISON, G. G.**, 2030 Harold St.
**WILSON ELEC. EQUIP.**, 1 No. Sampson.

## UTAH

### Salt Lake City

**ALDER SALES CORP.**, 1343 South Main St.
**BINTZ CO. W. H.**, 433 W. 3rd So. St.
**BRUCE-EMMETT CO.**, 1630 Sherman Ave.
**CHRISTENSEN, J. R.**, 524 F. St.
**CONELY ENG. CO.**, 149 W. 2nd South
**ELGGREN & SONS CO., A. J.**, 428 So. West Temple.
**FLINT DISTRIBUTING CO.**, 316 West 2nd So.
**GATES CO.**, 822 Continental Bank
**GENERAL ELECTRIC SUPPLY CORP.**, 312 West 2nd South St.
**GNADT, W. E.**, 507 McIntyre Bldg.
**NICKERSON MACHINERY CO.**, 271 S. W. Temple St.
**SILVER COMPANY, CLARENCE W.**, 550 West 7th South St.
**SLUSSER, LEONARD M.**, 318 Dooly Bldg.
**SPENCER & CO.**, 1421 So. Main.
**WESTERN SALES SERVICE**, 435 Atlas Bldg.
**WESTINGHOUSE ELEC. SUPPLY CORP.**, 210 Rio Grande St.
**WILLIAMS, GRITTON & WILDE**, 204 Dooly Building.

## WASHINGTON

### Seattle

**ALDERMAN, O. A.**, 4545 51st Ave. N. E.
**ALLIED INDUSTRIES**, 532 First Ave. So.
**BACKER COMPANY, JAMES J.**, 2321 2nd Ave.
**BEST, KEN H.**, 539 1st Ave. South (See advertisement, page 59.)
**BRUCE-EMMET CO.**, 2726 First Ave. So.
**CARLSON, FRED W.**, 307 Wall St. (See advertisement, page 13)
**CARROLL, EDGAR**, 2727 First Ave.
**CONLEY, P. R.**, 8415 Roosevelt Way.
**CONNELLY COMPANY, F. B.**, 1015 Republican St.
**COX & CO., A. H.**, 1757 First Ave. So.
**CROWE & CO., INC., F. T.**, 216 Walker Bldg.
**EICHER & COMPANY**, 263 Colman Bldg.
**ELECTRIC AGENCIES**, 605 First Ave.
**ELECTRICAL SPECIALTY CO.**, 2406 First Ave. (See advertisement, page 14)
**EVANS, C. L.**, Terminal Sales Bldg.
**FISKE CO., INC., L. G.**, 205 Terminal Sales Bldg.
**GARLAND-AFFOLTER ENG. CORP.**, 532 First Ave. So.
**GARNETT YOUNG & CO.**, 503 Polson Bldg.
**GENERAL ELEC. SUPPLY CORP.**, 1212 1st Ave. South
**GLEASON, D. S.**, 901 E. 45th St.
**GORDON, W. G.**, 619 2nd Ave.
**GREENE WINKLER CO.**, 5th Ave. at Battery.
**HANAUER, WM. E.**, 1736 1st Ave. South.
**HEINZ COMPANY, B. T.**, Pier 59.
**HENDREY CO., W. R.**, Smith Tower.
**HEWITT CO., INC., A. D.**, 2718 Elliott Ave.
**HOFFMAN, H. H.**, 319 2nd So.
**HOGENSON, OSCAR**, 95 Connecticut.
**HUDSON COMPANY, HAROLD** 100 New World Life Bldg.
**INDUSTRIAL PRODUCTS CO.**, 2911 1st Ave. So.
**INSTRUMENT LABORATORY, INC.**, 934 Elliott Ave. W.
**JENSEN COMPANY, VERNER O.**, 2616 Second Ave.
**JOSLYN PACIFIC CO.**, 2424 First Ave. So.
**KEELER, WHITE CO.**, 1041 6th Ave. So.
**KING COMPANY, C. A.**, 2323 2nd Ave.
**LAMAR, L. B.**, 1246 1st Ave. South.
**LA MOREE, C. D.**, 166 Jackson St. (See advertisement, page 59)
**LEE COMPANY, DAVE M.**, 2626 2nd Ave.

**LIPPINCOTT CO.**, 505 Maritime Bldg.
**LUNDIN & CO., D. H.**, 1127 East Northlake
**LYNN & CHEMNITZ**, 2601 Second Ave.
**MARWOOD, LTD.**, 1714 First Ave. South.
**MAYDWELL & HARTZELL, INC.**, 2nd & Cherry Bldg.
**(See advertisement, page 7)**
**McDOUGALL CO., J. C.**, 520 First Ave. South.
**MONTGOMERY BROS.**, 911 Western Ave.
**(See advertisement, page 86)**
**MUTH-RICHARDS CO.**, 1426 Broadway.
**NORRIS COMPANY, GEORGE D.**, 3010 First Ave.
**NORTH PACIFIC ELECTRIC AGENCIES**, 615 Lloyd Bldg.
**NORTHWEST APPLIANCE DIST.** 2704 2nd Ave.
**NORTHWESTERN AGENCIES, INC.**, 4130 First Ave. South.
**PACIFIC COAST HEATING & APPL. CO.**, Foot of Main St.
**PACIFIC ELECTRO SALES, INC.**, 3401 4th Ave. So.
**PANAMA LAMP & COM'L CO.**, 912 12 Ave.
**(See advertisement, page 58)**
**PARSONS & CO., C. B.**, 119 Belmont Ave. N.
**PENNING, J. R.**, 2323 2nd Ave.
**PLATT, JOHN C.**, 1411 4th Ave., Bldg.
**PRICE COMPANY, W. MONTELIUS**, 524 1st Ave. South.
**PROBY BROTHERS**, 422 Smith Tower.
**RADIO TELEVISION & APPL., INC.**, 510 Westlake North.
**RAYMER COMPANY, L. L.**, 911 Western.
**ROBINSON DISTRIBUTING CORP.**, 3129 Western Ave.
**SANDERLIN COMPANY**, 131 1st Ave. West.
**SANFORD CO., D. E.**, 2521 2nd Ave.
**SCHARR, FREEMAN C.**, 441 Dexter Horton Bldg.
**SMITH CORPORATION, A. O.**, White Henry Stuart Bldg.
**SPARKS, JAMES D.**, 7331 W. Green Lake Way.
**STARE, BURTON R.**, 802 33rd Ave.
**SUTTHOFF, JOHN H.**, 508 5th Ave. So.
**TIERNEY ELECTRICAL MFG. CO.**, 2713 1st South.
**(See advertisement, page 44)**
**TRI-STATE SUPPLY CO.**, 318 Occidental Ave.
**TURNER, W. K.**, Terminal Sales Bldg.
**WATKINS, J. W.**, 551 Skinner Bldg.
**WATSON COMPANY, T. T.**, 508 5th Ave. South.
**WESTINGHOUSE ELEC. SUPPLY CORP.**, 1051 1st Ave So.
**WHEAT & SON, W. W.**, 560 1st Ave. So.
**WOOD CO., FRED C.**, Terminal Sales Bldg.
**WOOD, THOMAS S.**, 220 9th Ave. North.
**(See advertisement, page 86)**

## Spokane

**CONNELLY COMPANY, F. B.**, 840 West Trent St.
**HENDRICKSON & ASSOCIATES, ERNEST G.**, 1717 West Broadway.
**NORTHWEST APPLIANCE DISTRIBUTORS**, 1015 W. Riverside
**PRUDENTIAL DISTRIBUTORS, INC.**, So. 151 Stevens.
**STANDARD SALES, INC.**, 1219 W. First.
**TINLING & POWELL**, E. 706 Sprague Ave.

The following manufacturers, as indicated, have ceased the manufacture of appliances, gone out of business, or moved and left no address as marked by the post office.

Amalgamated Engineering Co. Inc., 2316 So. Vermont Ave., Los Angeles 7, Calif.—moved, left no address.

Clipshave Inc., 11 No. Pearl St., Port Chester, N. Y.—out of business.

Edison, Thos. A. Inc., West Orange, N. J.—out of appliance business only.

Featherline Corp., 299 Madison Ave., New York, N. Y.—moved, left no address.

Gilfillan Bros. Inc., 1815 - 1849 Venice Blvd., Los Angeles 6, Calif.—out of appliance business only.

Harmony Mfg. Co. Inc., 730 No. Fairfax Ave., Los Angeles, Calif.—out of business.

Hobar Co. Inc., 208 Fifth Ave., New York 10, N. Y.—out of clock business only.

Home Appliances Co., 2230 So. Michigan Ave., Chicago 16, Ill.—moved, left no address.

Marcy Lamp Corp., 1101 First Ave., New York 21, N. Y.—moved, left no address.

Murphy Appliance Mfg. Co., 1610 No. Vermont Ave., Los Angeles 27, Calif.—moved, left no address.

Pressed Steel Car Co. Inc., 666 No. Lakeshore Drive, Chicago 11, Ill.—out of appliance business only.

Railley Corp., 12910 Taft Rd., Cleveland, Ohio—out of business.

Scientific Heater Co., 5606 Sunset Blvd., Hollywood 28, Calif.—moved, left no address.

Sound Equipment Corp. of Calif., 1334 Moncado Drive, Glendale, Calif.—out of business.

Thompson Infra Red Co., 1855 Industrial St., Los Angeles 21, Calif.—moved, left no address.

Universal Electronics Corp., 122 15th St., San Francisco, Calif.—out of business.

Western Refrig. Co., 433 Jefferson St., Oakland, Calif.—out of business.

**"But you can't buy that kind of a motor..."**

How many times have you heard somebody that ought to know better say something like that about motors, pumps, compressors or what-have-you? And how many times you heard somebody else say, "Oh yes you can! I saw just what we need in Blank Company's ad yesterday."
Advertising pages in this magazine are packed with *news* about your business. They contain information about products and services designed to help *you* do your job quicker, better and cheaper.
To be well-informed about the latest developments in *your* business, *your* industry . . . and to stay well-informed . . . *read all the ads too.*

**McGRAW-HILL PUBLICATIONS**

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# GUIDE to modern factory lighting practice

for lighting from the side

ELLIPTICAL ANGLE

for high bay lighting

"STEELITE"

for general lighting

"TURNLOX" RLM DOME REFLECTORS

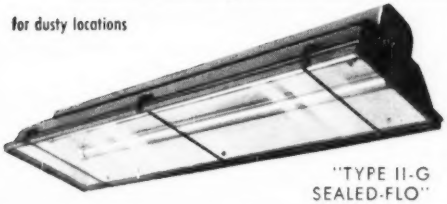
for explosive atmospheres

EXPLOSION-PROOF

for damp and wet locations

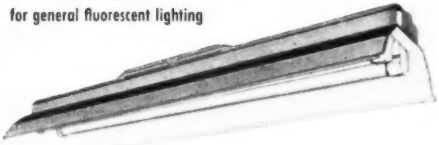
VAPOR-TIGHT

for dusty locations



"TYPE II-G SEALED-FLO"

for general fluorescent lighting



"TWIN-FLO"

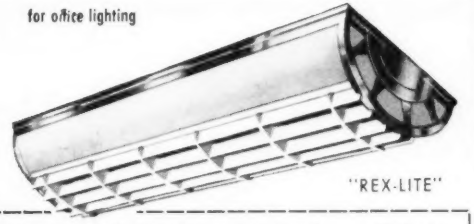
for comfort lighting

"SHIELD-FLO"

for high level lighting

"LITE-LINE"

for office lighting



"REX-LITE"

**Benjamin Electric Mfg. Co.**
**Dept. 3**
**Des Plaines, Illinois**

Please send me without cost or obligation Data Bulletins on:

- ☐ "TURNLOX" RLM DOME REFLECTORS
- ☐ ELLIPTICAL ANGLE
- ☐ "STEELITE"
- ☐ EXPLOSION-PROOF
- ☐ VAPOR-TIGHT
- ☐ "TYPE II-G SEALED-FLO"
- ☐ "SHIELD-FLO"
- ☐ "LITE-LINE"
- ☐ "TWIN-FLO"
- ☐ "REX-LITE"

NAME _____

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COMPANY _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

R-3236

**Modern Factory Lighting Practice begins with the Seeing Task . . . with the things that the employee does and the factors which directly and indirectly affect his ability to see.**

To fit the lighting to the Seeing Task involved in a specific operation or operations, requires first of all the selection of the proper *type* and *make* of lighting units. These units must be designed so as to provide, satisfactorily and economically, the kind of illumination required by this Seeing Task. Further, the lighting units should meet the special environmental conditions of the location, being so designed as to facilitate maintenance, promote safety and reduce operating costs to a minimum.

The chart above illustrates how some of the most commonly encountered lighting problems can be solved through the specification of Benjamin Lighting Units. Data Bulletins are available on each and may be obtained without cost or obligation from your Electrical Contractor, or by sending the coupon to Benjamin Electric Mfg. Co., Des Plaines, Illinois.

**BENJAMIN**
*Lighting Equipment*
Distributed Exclusively through Electrical Wholesalers

# SORGEL AIR-COOLED TRANSFORMERS

Dry-Type

¼ Kv-a. Single Phase 460/230 to 115 volt

## *For every purpose—*

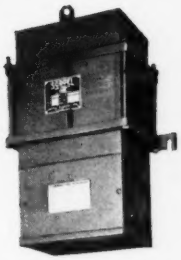
¼ to 1000 Kv-a. Single phase. 1 Kv-a. to 2000 Kv-a. 3-phase.

To operate 115 volt lighting and portable equipment from 230-460 or 575 volt power circuits.

To operate special equipment from standard circuits.

To change odd voltages to standard voltages and phase changing.

Also—Series street lighting transformers.
Electronic and Rectifier Transformers.
Signal transformers.
Control transformers.
Pipe thawing transformers.
Special custom-built transformers.

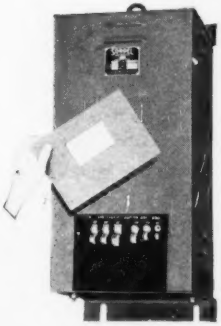


5 Kv-a. Single Phase 480/240 to 240/120 Volt. Wall Mounting Type.

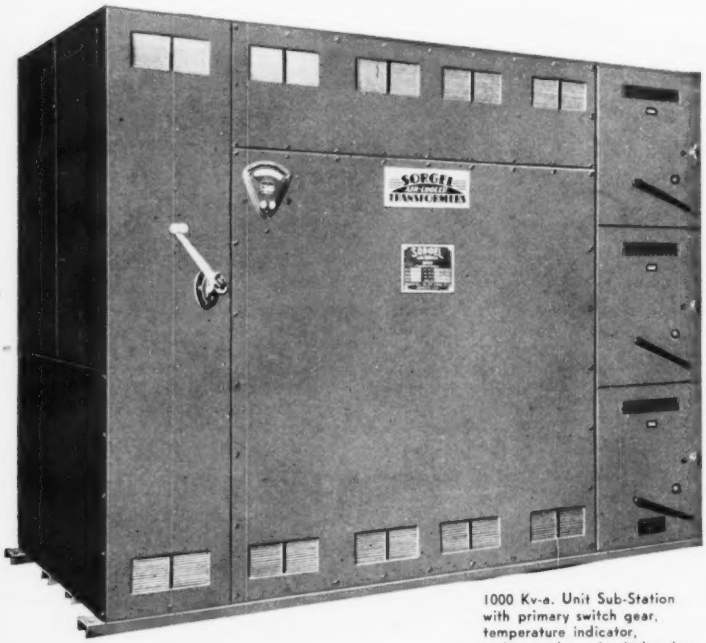
# Unit Sub-Stations

For interior high voltage distribution systems with transformers at load centers.

Sizes up to 2000 Kv-a. and up to 15,000 volts.



15 Kv-a. 3-phase Wall mounting type. Showing connection compartment with solderless terimnals




1000 Kv-a. Unit Sub-Station with primary switch gear, temperature indicator, and secondary circuit breakers.

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